REC'D OCT 14 2011

Schlumberger

Company: **OXY USA - LA BASIN**

CONFIDENTIAL

Well: **DOM-001**
Field: **Dominguez**
County: **Los Angeles** State: **California**

RT SCANNER

County: Los Angeles
Field: Dominguez
Location: Surface Lambert Coordinates
Well: DOM-001
Company: OXY USA - LA BASIN

LOCATION

Surface Lambert Coordinates		Elev.: K.B.	194.09 ft
N: 4 062 754.38		G.L.	
E :4 214 067.32		D.F.	194.09 ft
Permanent Datum:	037-27124	Elev.:	268.97 ft
Log Measured From:	Derrick Floor	-74.89 ft	above Perm. Datum
Drilling Measured From:	Derrick Floor		

API Serial No.	Section	Township	Range
037-27124	33	3S	13W

Logging Date			14-Oct-2010								
Run Number			One								
Depth Driller			2010 ft								
Schlumberger Depth			2012 ft								
Bottom Log Interval			2012 ft								
Top Log Interval			330 ft								
Casing Driller Size @ Depth			18.625 in	@	330 ft			@			
Casing Schlumberger			330 ft								
Bit Size			12.250 in								
Type Fluid In Hole			Gelite/KCL								
MUD	Density	Viscosity	10 lbm/gal	45 s							
MUD	Fluid Loss	PH	11 cm3	7.8							
MUD	Source Of Sample		Mudpit								
RM @ Measured Temperature			0.347 ohm.m	@	75 degF			@			
RMF @ Measured Temperature			0.161 ohm.m	@	78 degF			@			
RMC @ Measured Temperature			0.413 ohm.m	@	80 degF			@			
Source RMF	RMC		Meas	Meas							
RM @ MRT	RMF @ MRT		0.227 @ 118	0.109 @ 118			@			@	
Maximum Recorded Temperatures			118 degF								
Circulation Stopped	Time		13-Nov-2010		16:00						
Logger On Bottom	Time		13-Oct-2010		2:14						
Unit Number	Location		3181	Long beach							
Recorded By			Mark MacGlashan								
Witnessed By			Marieke Gaudet								

			Run 1				Run 2				
Logging Date											
Run Number											
Depth Driller											
Schlumberger Depth											
Bottom Log Interval											
Top Log Interval											
Casing Driller Size @ Depth							@				
Casing Schlumberger											
Bit Size											
Type Fluid In Hole											
MUD	Density	Viscosity									
MUD	Fluid Loss	PH									
MUD	Source Of Sample										
RM @ Measured Temperature							@				
RMF @ Measured Temperature							@				
RMC @ Measured Temperature							@				
Source RMF	RMC										
RM @ MRT	RMF @ MRT			@						@	
Maximum Recorded Temperatures											
Circulation Stopped	Time										
Logger On Bottom	Time										
Unit Number	Location										
Recorded By											
Witnessed By											

Run 3	Run 4

DEPTH SUMMARY LISTING

Date Created: 5-NOV-2010 18:03:46

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-46ZV XS
Serial Number:	7024	Serial Number:	1222	Serial Number:	6419
Calibration Date:	8-Jun-2010	Calibration Date:	04-Nov-2010	Length:	12800 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	76031	Conveyance Method:	Wireline
Calibration Cable Type:	7-46ZV XS	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-8	Calibration RMS:	59		
Wheel Correction 2:	-8	Calibration Peak Error:	89		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 FT
Rig Up Length At Bottom:	0.00 FT
Rig Up Length Correction:	0.00 FT
Stretch Correction:	7.00 FT
Tool Zero Check At Surface:	0.00 FT

Depth Control Remarks

1. All Schlumberger depth control procedures followed
2. IDW used as primary depth control, Z-Chart used as secondary
3.
4.
5.
6.

DISCLAIMER
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1	OTHER SERVICES2
OS1: SONIC SCANNER	OS1:
OS2: PEX DENSITY - NEUTRO	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
RT scanner measurements affected by saline mud	

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RUN 1			RUN 2		
SERVICE ORDER #:		B1PN-00198	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:		0 ft	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

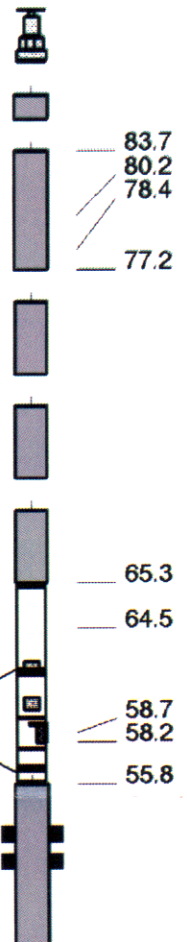
RUN 1 | RUN 2

SURFACE EQUIPMENT

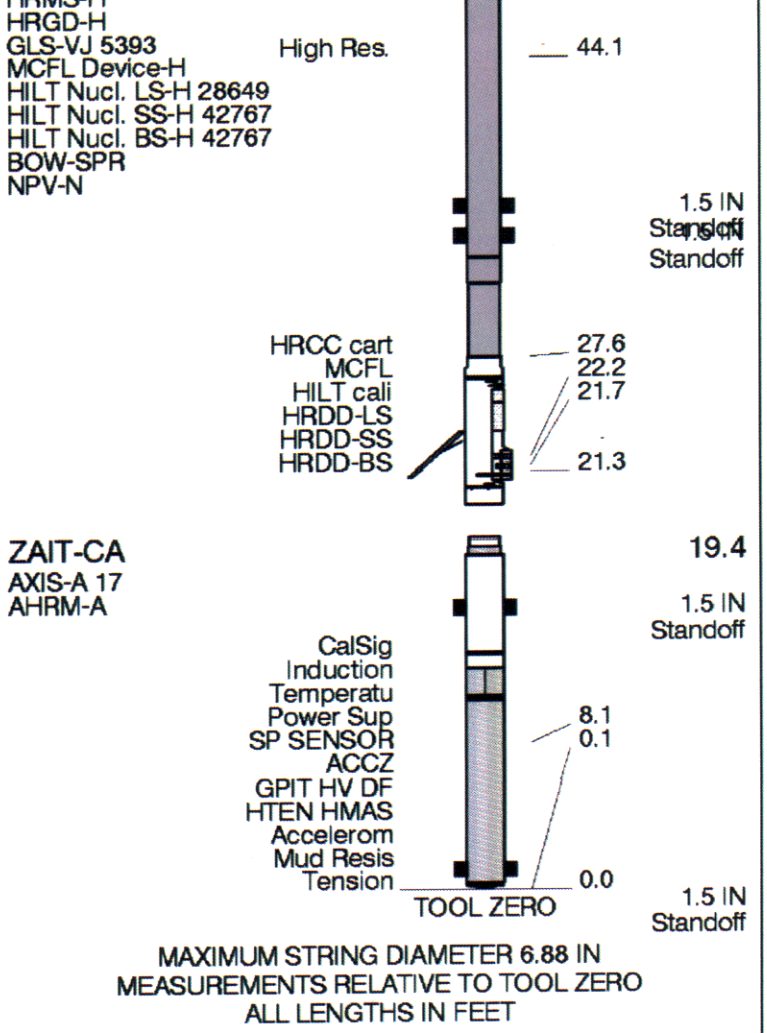
GSR-U/Y
NCT-B
CNB-AB
NCS-VB

WITM (EDTS)-A

DOWNHOLE EQUIPMENT



LEH-QT LEH-QT			88.0
AH-169	MDSB_EDTC		85.1
EDTC-B EDTH-B EDTC-B EDTG-A/B	Mud Tempe CTEM Gamma Ray EFTB DIAG TelStatus EDTCB Ele	83.7 80.2 78.4 77.2	83.7
AH-GPIH AH-GPIH			77.2
GPIT-C GPIC-C GPIH-B			73.2
AH-GPIH AH-GPIH	HGNS HTEM HMCA	65.3	69.2
HILTH-FTB HGNSD-H HMCA-H HGNH NLS-KL NSR-F 2395 HACCZ-H 5466 HCNT-H HGR HRLT-B DUMMY-A AH-270 HRCC-H HRMS-H	HGNS Gamm HGNS Neut HGNS Neut HGNS sens	64.5 58.7 58.2 55.8	65.2
			1.5 IN Standoff Standoff



Company: OXY USA - LA BASIN **Well: DOM-001**

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_073PUP	FN:67	PRODUCER	14-Nov-2010 13:57	2016.0 FT	177.5 FT

Output DLIS Files

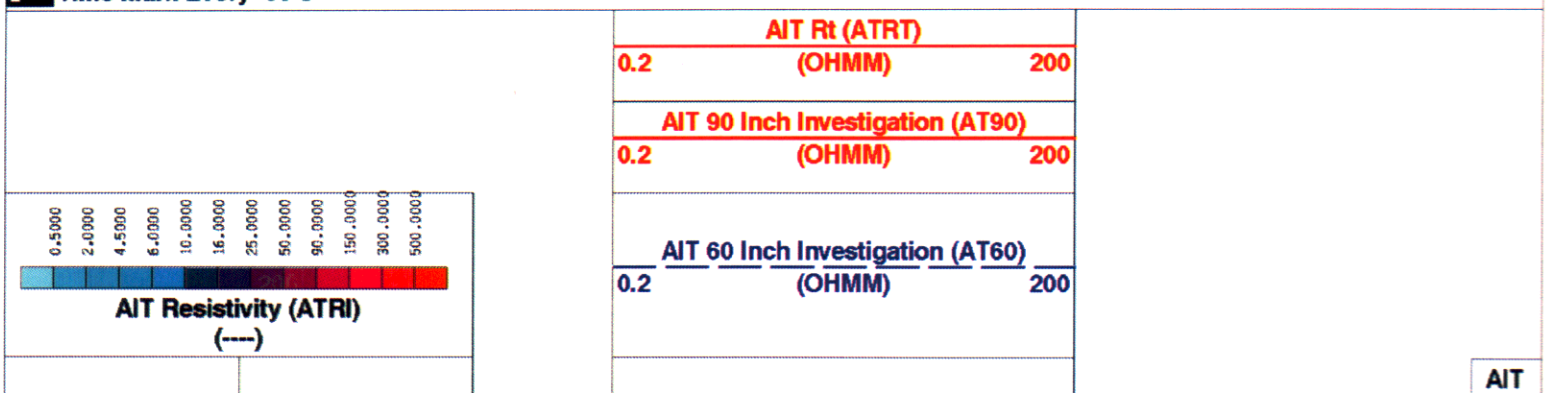
DEFAULT	AIT_TLD_MCFL_CNL_117PUP	FN:110	PRODUCER	15-Nov-2010 02:51	2016.0 FT	177.5 FT
CUST_DLIS	AIT_TLD_MCFL_CNL_117PUC	FN:111	CUSTOMER	15-Nov-2010 02:51	2016.0 FT	177.5 FT

OP System Version: 17C0-154

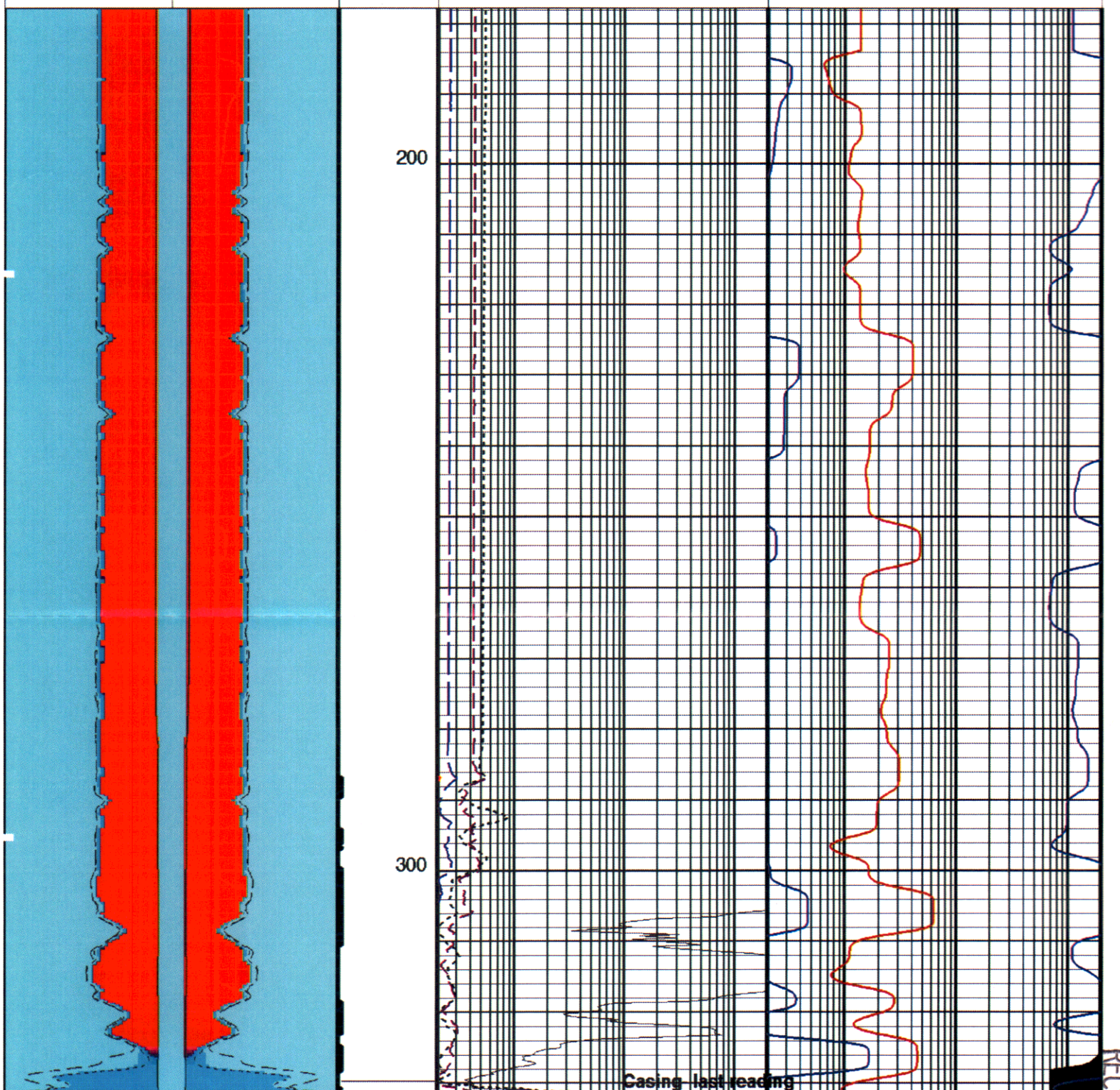
ZAIT-CA	17C0-154	HILTH-FTB	17C0-154
GPIT-C	SRPC-3912-Q4_2009_OP17_b	EDTC-B	SKK-3882-EDTCB_b

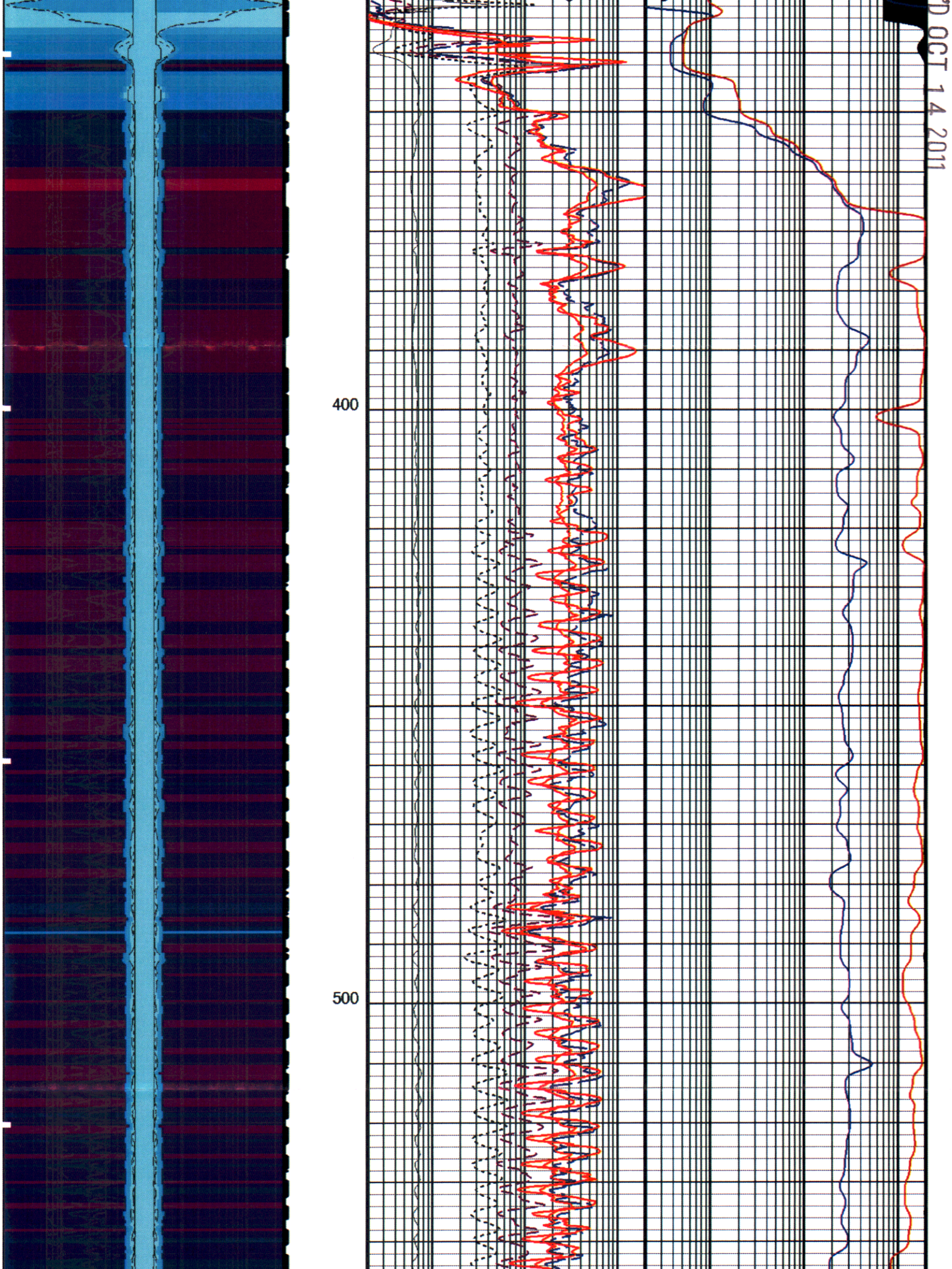
PIP SUMMARY

Time Mark Every 60 S



AIT Input Bhole Radius (AIBD)	AIT Input Bhole Radius (AIBD)		AIT 30 Inch Investigation (AT30)		Volume of Mud Filtrate (ATVM) (G/FT)
90 (IN) 0	0 (IN) 90		0.2 (OHMM) 200		84 0
AIT Outer Invasion Radius (ATD2)	AIT Outer Invasion Radius (ATD2)		AIT 20 Inch Investigation (AT20)	3D Filtered 1D Vertical Resistivity (RV54_1DF)	
90 (IN) 0	0 (IN) 90		0.2 (OHMM) 200	0.2 (OHMM) 200	
AIT Inner Invasion Radius (ATD1)	AIT Inner Invasion Radius (ATD1)	AIT Curve out of Order Flag (ATOO)	AIT 10 Inch Investigation (AT10)	3D Filtered 1D Horizontal Resistivity (RH54_1DF)	
90 (IN) 0	0 (IN) 90	0 (----) 24	0.2 (OHMM) 200	0.2 (OHMM) 200	





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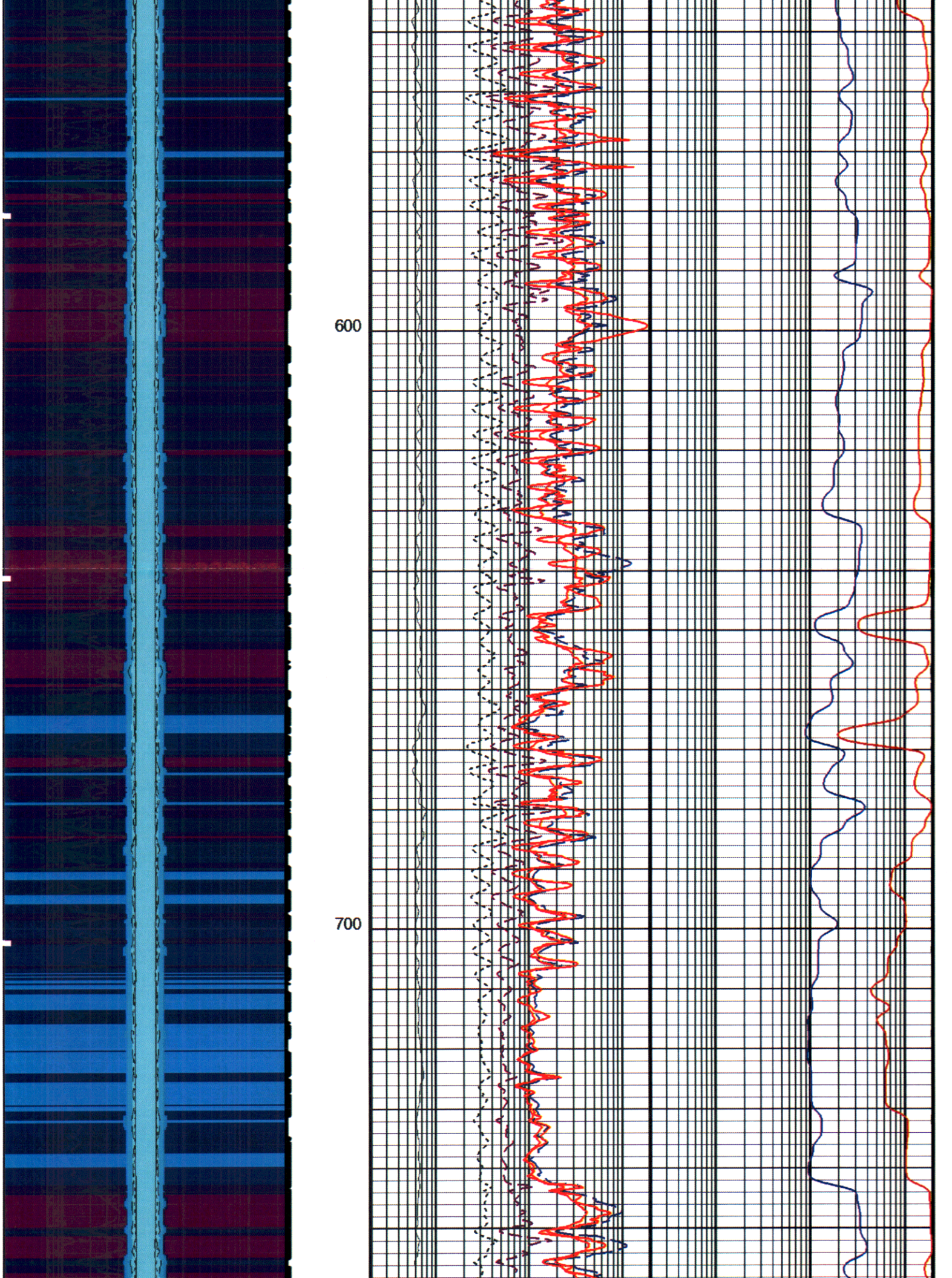
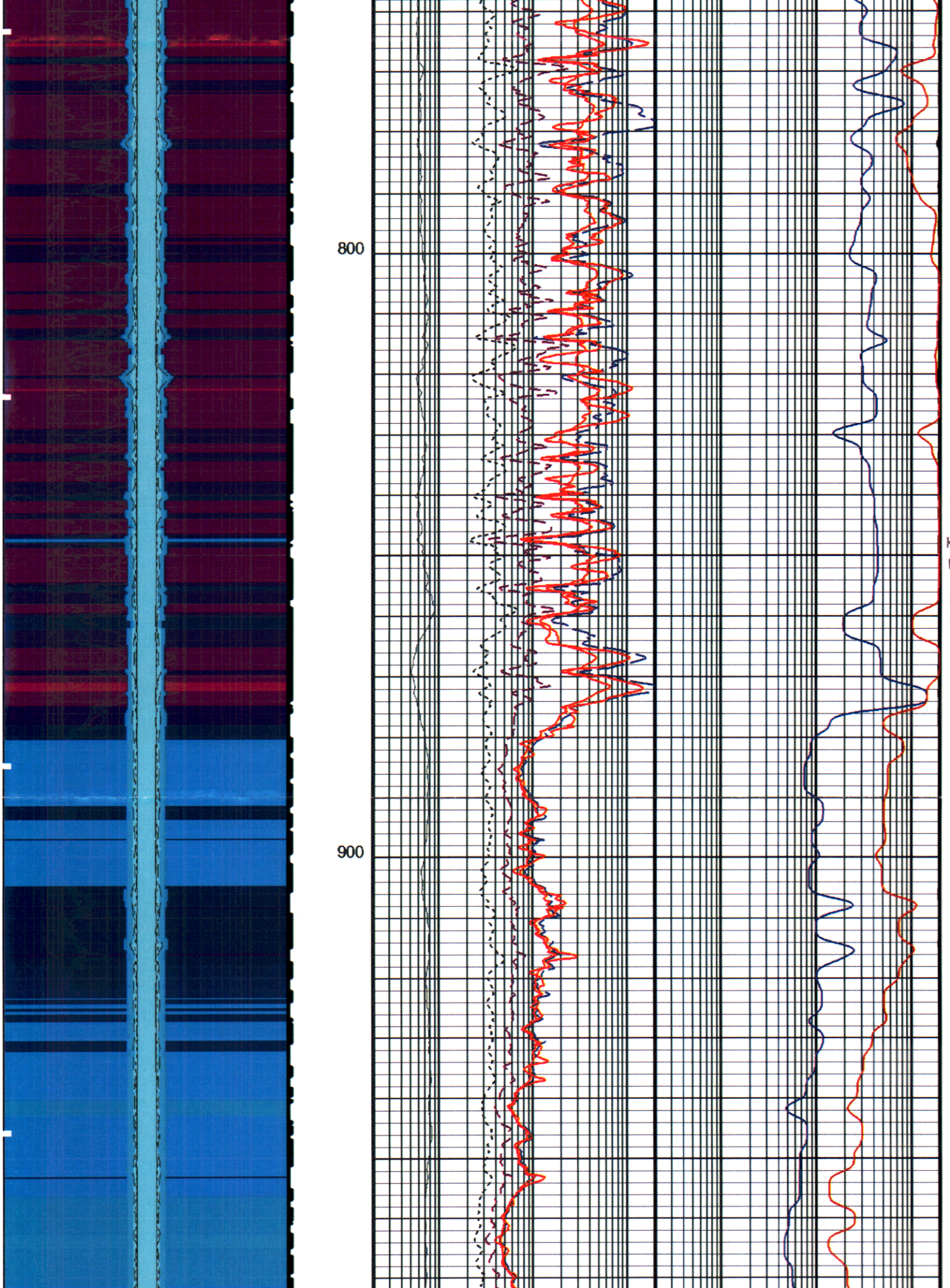

600
700



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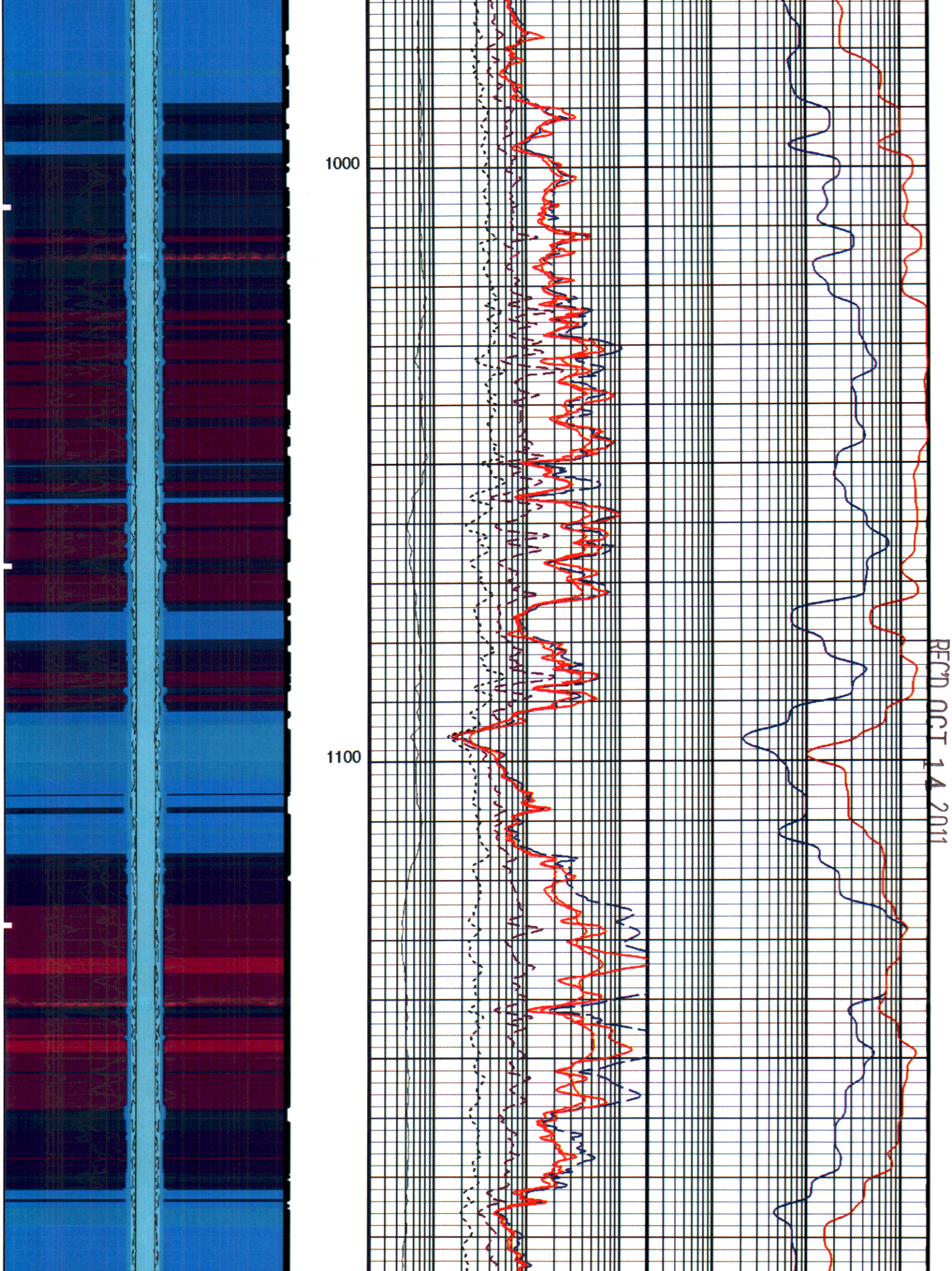

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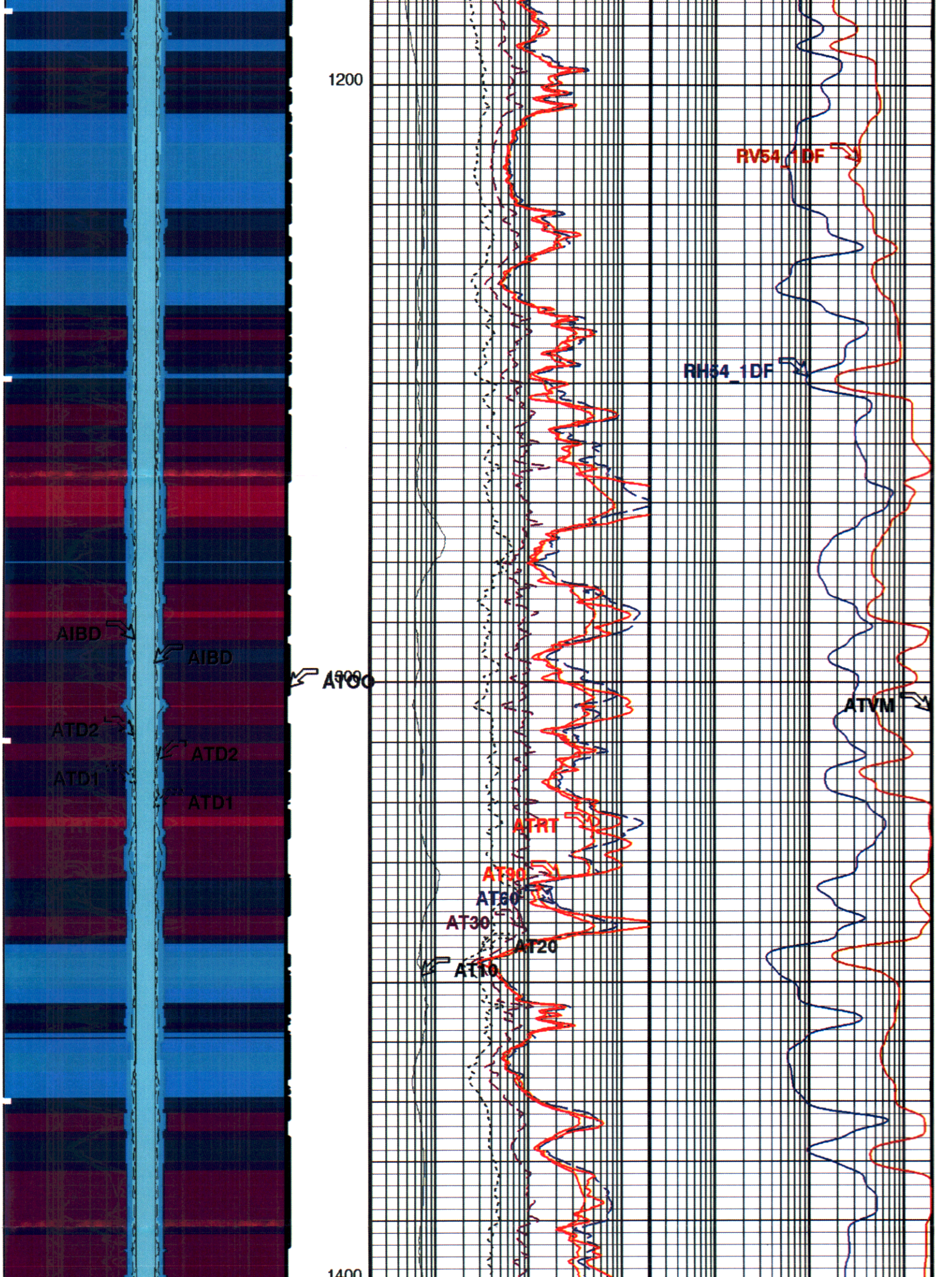
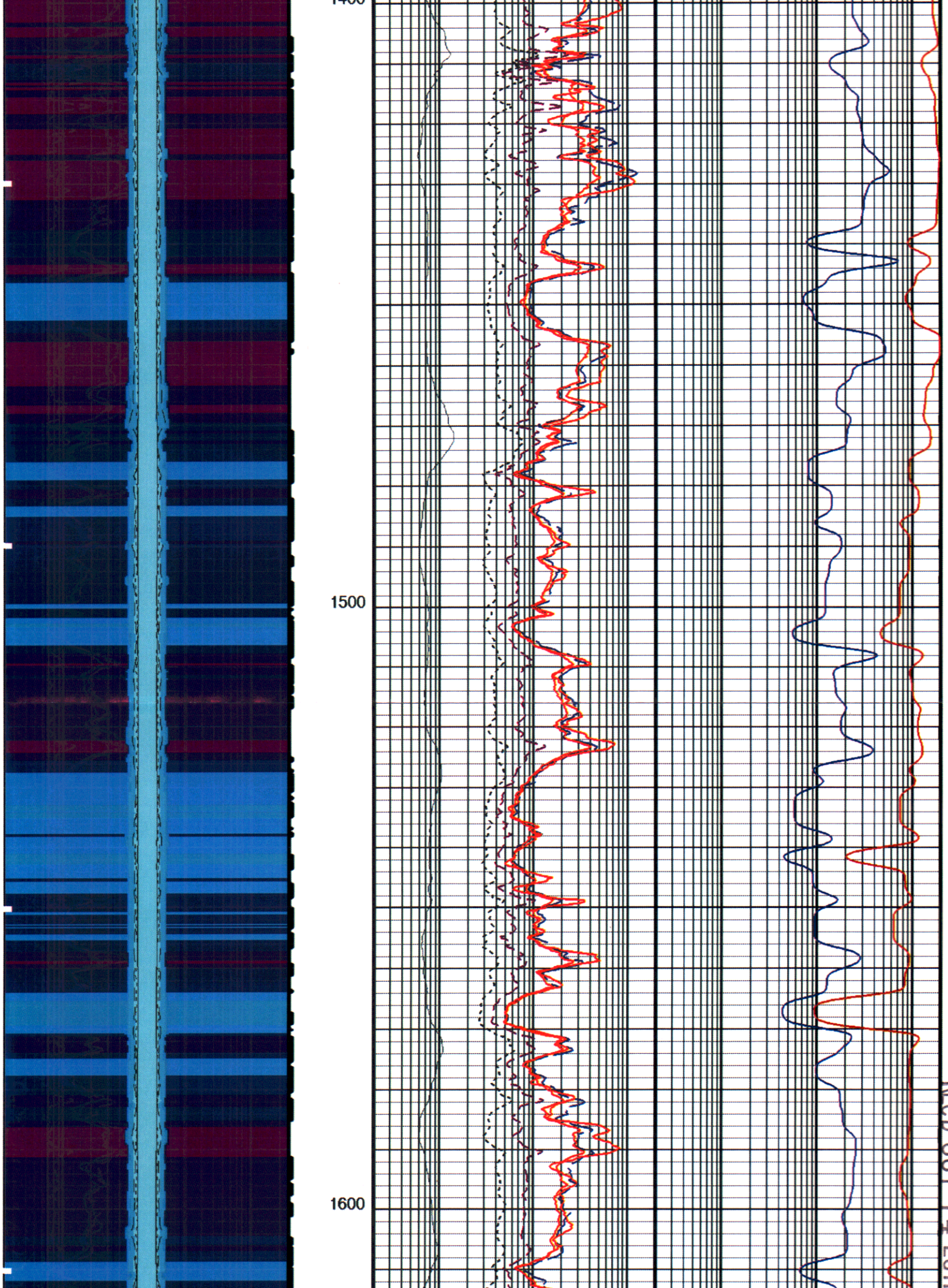
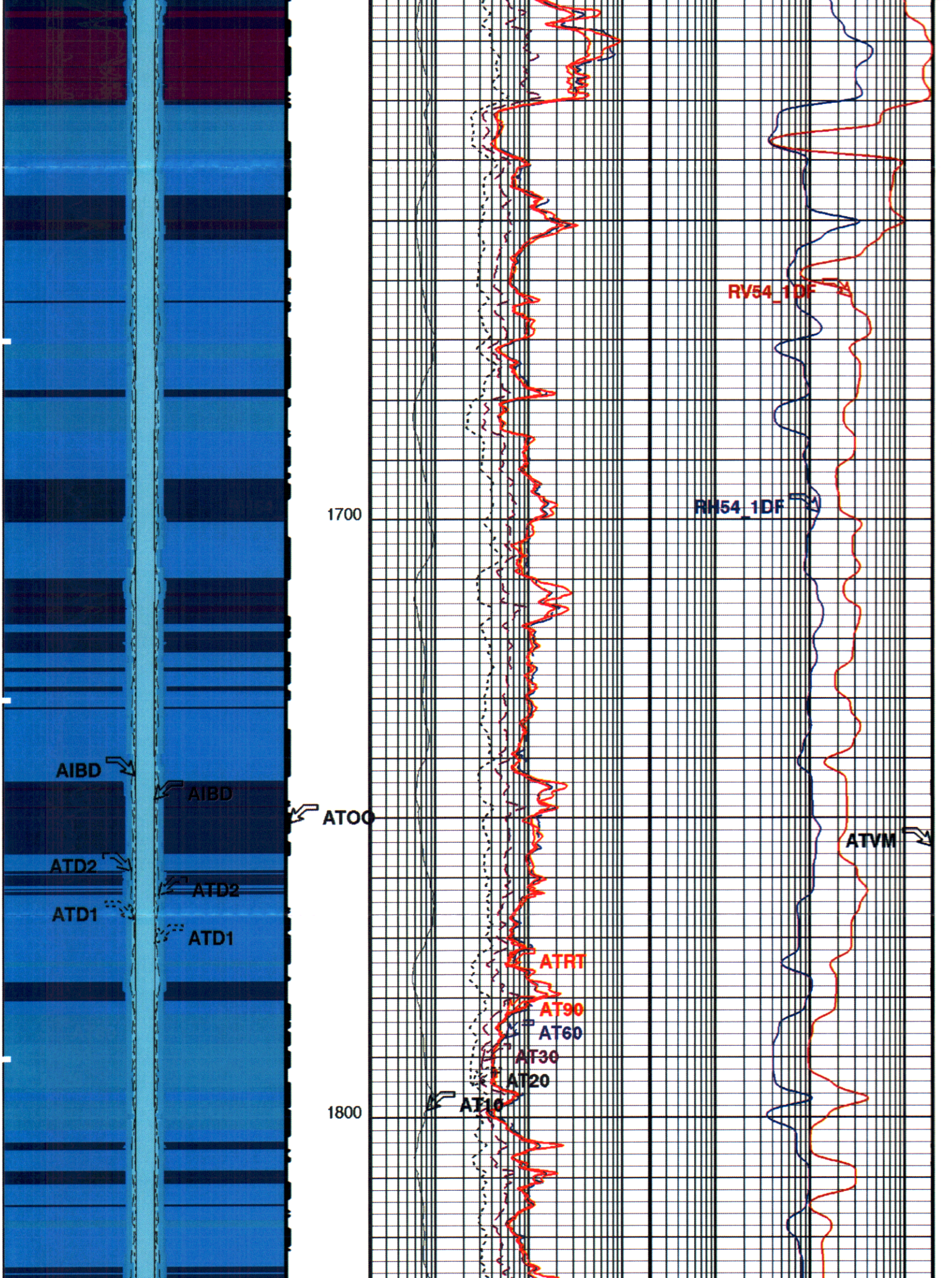
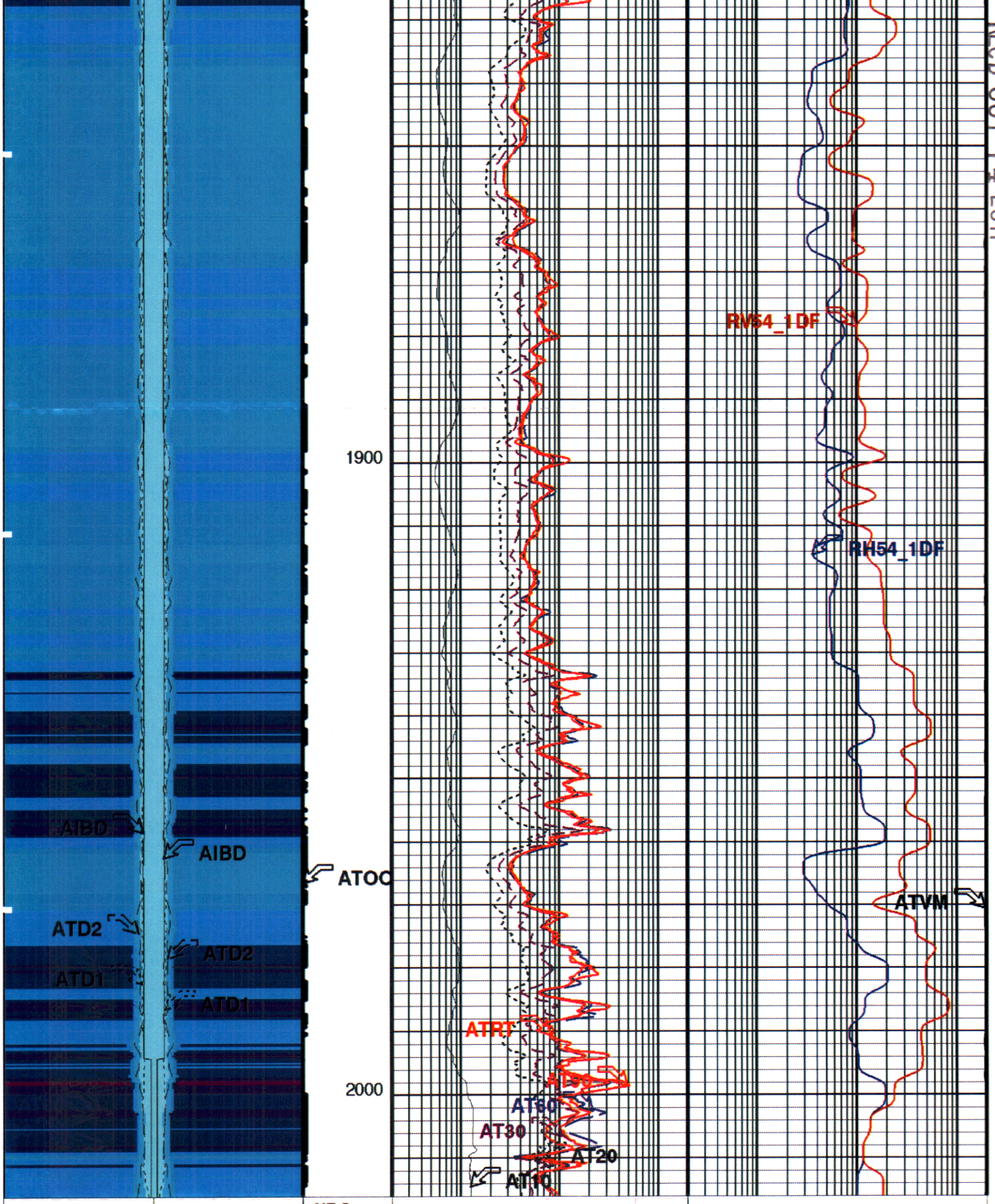

1200
RV54_1DF
RH54_1DF
AIBD
AIBD
ATVM
ATD2
ATD2
ATD1
ATD1
ATRT
AT90
AT60
AT30
AT20
AT10
1400



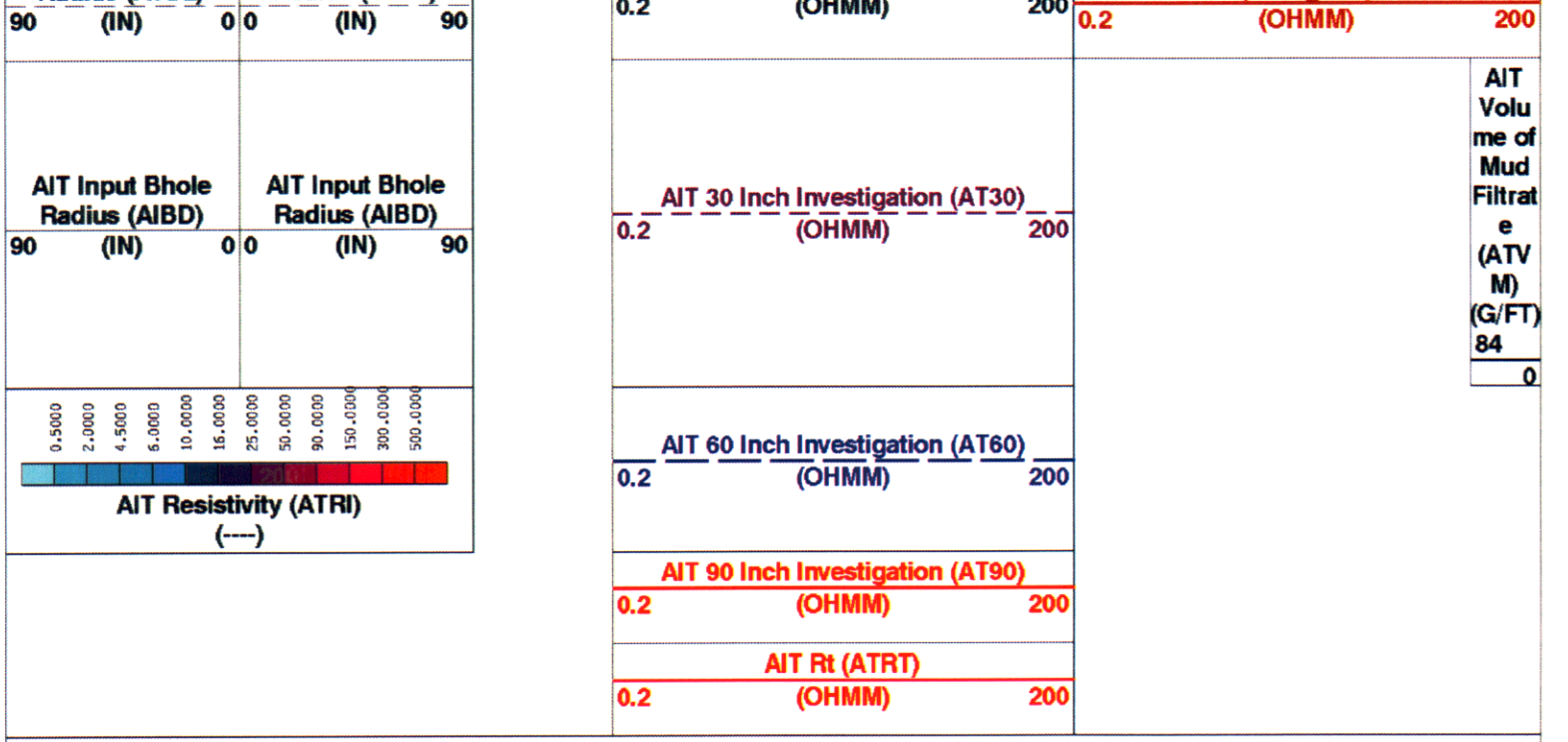
RECD OCT 14 2011


AIBD
AIBD
ATOO
ATD2
ATD2
ATD1
ATD1
1700
1800
RV54_1DF
RH54_1DF
ATVM
ATRT
AT90
AT60
AT30
AT20
AT10



AIT Inner Invasion Radius (ATD1)	AIT Inner Invasion Radius (ATD1)	AIT Curve out of Order Flag (ATOO)	AIT 10 Inch Investigation (AT10)	3D Filtered 1D Horizontal Resistivity (RH54_1DF)
90 (IN) 0	0 (IN) 90	0 (----) 24	0.2 (OHMM) 200	0.2 (OHMM) 200
AIT Outer Invasion Radius (ATD2)	AIT Outer Invasion Radius (ATD2)		AIT 20 Inch Investigation (AT20)	3D Filtered 1D Vertical Resistivity (RV54_1DF)

RECD OCT 14 2011



PIP SUMMARY

Time Mark Every 60 S

ZAIT Answer Product Processing Summary. Data taken with tool # 17

***** Bhole Correction *****

Effective Tool Standoff computed. Borehole diameter and mud res. taken as input (see GCSE and GRSE parameters)

Tool is run in ECCENTERED mode with a tool stand-off of 1.50 IN. Bit Size is 12.25 IN.

***** Input Selections to ZAIT Answer Product processing *****

Caliper (GCSE): HCAL Mud Resistivity (GRSE): GEN_9 Temperature (GTSE): LINEAR_ESTIMATE Porosity (FPHI): DPHZ

***** Other parameters used by ZAIT Answer Product processing *****

Mud Sample Resistivity (RMS)	0.347 OHMM	Mud Sample Temperature (MST)	74.900 DEGF
Surface Hole Temperature (SHT)	68.000 DEGF	Bottom Temperature (BHT)	118.000 DEGF
Total Depth (TD)	-50000.000 FT		
Form Factor Exponent (FEXP)	2.000	Form Factor Numerator (FNUM)	1.000
Mud Filtrate Sample Resistivity (RMFS)	0.161 OHMM	Mud Filtrate Sample Temperature (MFST)	77.800 DEGF
Resitivity Connate Water (RW)	1.000 OHMM		

***** ZAIT Answer Product processing control parameters *****

Playback Mode: RECOMPUTE

(AEBC): Yes (AEBL): Yes (AERP): Yes

(ABHM): 1_ComputeStandoff (ABLM): 6_One_Two_and_Four (ARPM): 6_One_Two_and_Four

Parameters

DLIS Name	Description	Value	
ZAIT-CA: 3-D Array Induction Tool - ZAIT-C			
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACDE	Array Induction Casing Detection Enable	No	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20	
ARFV	Array Induction Radial Profiling Code Version Number	701	
ARPV	Array Induction Radial Parametrization Code Version Number	232	
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
BHT	Bottom Hole Temperature (used in calculations)	118	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	

GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
TRI1DV	3D 1D Code Version Number	310	
TRIBHM	3D Induction Borehole Correction Mode	1_ComputeStandoff	
TRIBHV	Array Induction Borehole Correction Code Version Number	167	
TRIRSV	3D Induction Response Set Version	00.10.24.00	
TRIRT	3D Rotation Selector	NorTH	
TRISAP	3D Induction Suspend Answer Product Processing	0_NoSuspension	
TRISTA	3D Tool Standoff	1.5	IN
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHT	Bottom Hole Temperature (used in calculations)	118	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
EDTC-B: Enhanced DTS Cartridge			
BHT	Bottom Hole Temperature (used in calculations)	118	DEGF
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	180	FT
TIVD	TVD of Tie-in Point	180	FT
HOLEV: Integrated Hole/Cement Volume			
BHT	Bottom Hole Temperature (used in calculations)	118	DEGF
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
BS	Bit Size	12.250	IN
DO	Depth Offset for Playback	0.0	FT
FLEV	Fluid Level	0.00	FT
MST	Mud Sample Temperature	74.90	DEGF
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.1610	OHMM
TD	Total Depth	-50000	FT

Format: ZAIT_ResistivityImageTwoHigh Vertical Scale: 5" per 100' Graphics File Created: 15-Nov-2010 02:51

OP System Version: 17C0-154

ZAIT-CA	17C0-154	HILTH-FTB	17C0-154
GPIT-C	SRPC-3912-Q4_2009_OP17_b	EDTC-B	SKK-3882-EDTCB_b

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_073PUP	FN:67	PRODUCER	14-Nov-2010 13:57	2016.0 FT	177.5 FT

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_117PUP	FN:110	PRODUCER	15-Nov-2010 02:51
CUST_DLIS	AIT_TLD_MCFL_CNL_117PUC	FN:111	CUSTOMER	15-Nov-2010 02:51

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
3-D Array Induction Tool - ZAIT-C Wellsite Calibration - Electronics Calibration Check - Thru Cal Mag. & Phase							
Master: Calibration out of date 19-Feb-2009 12:21 Before: 13-Nov-2010 16:54 After: 14-Nov-2010 3:07							
Thru Cal Magnitude - 0	0	1.473	2.090	1.460	-0.6294	N/A	MM/M
Thru Cal Magnitude - 1	0	1.488	2.022	1.467	-0.5556	N/A	MM/M

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Thru Cal Magnitude - 2	0	1.441	1.773	1.433	-0.3395	N/A	MM/M
Thru Cal Magnitude - 3	0	3.391	4.812	3.367	-1.445	N/A	MM/M
Thru Cal Magnitude - 4	0	3.426	4.657	3.381	-1.276	N/A	MM/M
Thru Cal Magnitude - 5	0	3.319	4.083	3.305	-0.7779	N/A	MM/M
Thru Cal Magnitude - 6	0	2.716	3.851	2.689	-1.161	N/A	MM/M
Thru Cal Magnitude - 7	0	2.743	3.725	2.701	-1.025	N/A	MM/M
Thru Cal Magnitude - 8	0	2.658	3.270	2.640	-0.6300	N/A	MM/M
Thru Cal Magnitude - 9	0	1.889	2.301	1.835	-0.4665	N/A	MM/M
Thru Cal Magnitude - 10	0	1.887	2.360	1.830	-0.5295	N/A	MM/M
Thru Cal Magnitude - 11	0	1.867	2.111	1.826	-0.2850	N/A	MM/M
Thru Cal Magnitude - 12	0	3.532	5.011	3.497	-1.513	N/A	MM/M
Thru Cal Magnitude - 13	0	3.568	4.844	3.512	-1.332	N/A	MM/M
Thru Cal Magnitude - 14	0	3.456	4.235	3.433	-0.8021	N/A	MM/M
Thru Cal Magnitude - 15	0	3.036	3.687	2.948	-0.7390	N/A	MM/M
Thru Cal Magnitude - 16	0	3.033	3.793	2.941	-0.8520	N/A	MM/M
Thru Cal Magnitude - 17	0	3.001	3.393	2.934	-0.4589	N/A	MM/M
Thru Cal Magnitude - 18	0	0.9342	1.325	0.9250	-0.4001	N/A	MM/M
Thru Cal Magnitude - 19	0	0.9445	1.283	0.9299	-0.3531	N/A	MM/M
Thru Cal Magnitude - 20	0	0.9149	1.127	0.9088	-0.2177	N/A	MM/M
Thru Cal Magnitude - 21	0	4.030	4.909	3.918	-0.9907	N/A	MM/M
Thru Cal Magnitude - 22	0	4.025	5.035	3.909	-1.125	N/A	MM/M
Thru Cal Magnitude - 23	0	3.983	4.503	3.899	-0.6038	N/A	MM/M
Thru Cal Magnitude - 24	0	1.364	1.935	1.352	-0.5833	N/A	MM/M
Thru Cal Magnitude - 25	0	1.379	1.872	1.359	-0.5136	N/A	MM/M
Thru Cal Magnitude - 26	0	1.336	1.637	1.328	-0.3088	N/A	MM/M
Thru Cal Magnitude - 27	0	4.030	4.894	3.918	-0.9755	N/A	MM/M
Thru Cal Magnitude - 28	0	4.025	5.035	3.909	-1.126	N/A	MM/M
Thru Cal Magnitude - 29	0	3.983	4.503	3.899	-0.6039	N/A	MM/M
Thru Cal Magnitude - 30	0	1.364	1.934	1.352	-0.5828	N/A	MM/M
Thru Cal Magnitude - 31	0	1.379	1.873	1.359	-0.5141	N/A	MM/M
Thru Cal Magnitude - 32	0	1.336	1.644	1.328	-0.3165	N/A	MM/M
Thru Cal Magnitude - 33	0	1.167	1.421	1.132	-0.2885	N/A	MM/M
Thru Cal Magnitude - 34	0	1.168	1.459	1.131	-0.3280	N/A	MM/M
Thru Cal Magnitude - 35	0	1.156	1.306	1.129	-0.1768	N/A	MM/M
Thru Cal Magnitude - 36	0	1.615	2.290	1.598	-0.6924	N/A	MM/M
Thru Cal Magnitude - 37	0	1.633	2.216	1.606	-0.6100	N/A	MM/M
Thru Cal Magnitude - 38	0	1.582	1.937	1.570	-0.3676	N/A	MM/M
Thru Cal Magnitude - 39	0	1.403	1.702	1.361	-0.3414	N/A	MM/M
Thru Cal Magnitude - 40	0	1.403	1.754	1.360	-0.3942	N/A	MM/M
Thru Cal Magnitude - 41	0	1.389	1.569	1.356	-0.2126	N/A	MM/M
Thru Cal Magnitude - 42	0	2.334	3.307	2.308	-0.9995	N/A	MM/M
Thru Cal Magnitude - 43	0	2.359	3.202	2.320	-0.8821	N/A	MM/M
Thru Cal Magnitude - 44	0	2.285	2.811	2.267	-0.5442	N/A	MM/M
Thru Cal Phase - 0	0	2.501	-125.3	-173.7	-48.37	N/A	DEG
Thru Cal Phase - 1	0	3.776	-126.6	-170.0	-43.41	N/A	DEG
Thru Cal Phase - 2	0	2.915	-120.0	-176.8	-56.83	N/A	DEG
Thru Cal Phase - 3	0	-0.9908	-126.9	-175.1	-48.18	N/A	DEG
Thru Cal Phase - 4	0	0.2952	-128.2	-171.4	-43.22	N/A	DEG
Thru Cal Phase - 5	0	-0.5639	-121.5	-178.2	-56.65	N/A	DEG
Thru Cal Phase - 6	0	-2.616	-129.4	-177.7	-48.33	N/A	DEG
Thru Cal Phase - 7	0	-1.337	-130.7	-174.0	-43.37	N/A	DEG
Thru Cal Phase - 8	0	-2.222	-124.1	179.1	303.2	N/A	DEG
Thru Cal Phase - 9	0	3.916	-36.12	-69.29	-33.17	N/A	DEG
Thru Cal Phase - 10	0	2.558	-37.76	-68.03	-30.27	N/A	DEG
Thru Cal Phase - 11	0	2.736	-32.61	-76.51	-43.90	N/A	DEG
Thru Cal Phase - 12	0	2.553	-125.7	-174.0	-48.32	N/A	DEG
Thru Cal Phase - 13	0	3.797	-127.0	-170.4	-43.40	N/A	DEG
Thru Cal Phase - 14	0	2.958	-120.4	-177.2	-56.82	N/A	DEG
Thru Cal Phase - 15	0	3.937	-36.40	-69.65	-33.25	N/A	DEG
Thru Cal Phase - 16	0	2.593	-38.10	-68.39	-30.28	N/A	DEG
Thru Cal Phase - 17	0	2.774	-32.95	-76.86	-43.91	N/A	DEG
Thru Cal Phase - 18	0	2.447	-125.0	-173.3	-48.35	N/A	DEG
Thru Cal Phase - 19	0	3.716	-126.3	-169.7	-43.39	N/A	DEG
Thru Cal Phase - 20	0	2.886	-119.7	-176.5	-56.83	N/A	DEG
Thru Cal Phase - 21	0	1.294	-37.87	-70.90	-33.03	N/A	DEG
Thru Cal Phase - 22	0	-0.05280	-39.52	-69.64	-30.12	N/A	DEG
Thru Cal Phase - 23	0	0.1241	-34.36	-78.12	-43.76	N/A	DEG
Thru Cal Phase - 24	0	-0.9613	-127.4	-175.5	-48.15	N/A	DEG
Thru Cal Phase - 25	0	0.2775	-128.7	-171.9	-43.22	N/A	DEG
Thru Cal Phase - 26	0	-0.5624	-122.1	-178.8	-56.64	N/A	DEG
Thru Cal Phase - 27	0	1.289	-37.81	-70.91	-33.10	N/A	DEG
Thru Cal Phase - 28	0	-0.05447	-39.52	-69.64	-30.13	N/A	DEG
Thru Cal Phase - 29	0	0.1240	-34.36	-78.12	-43.76	N/A	DEG
Thru Cal Phase - 30	0	-0.9981	-127.4	-175.5	-48.17	N/A	DEG
Thru Cal Phase - 31	0	0.2827	-128.7	-171.9	-43.21	N/A	DEG
Thru Cal Phase - 32	0	-0.5556	-122.1	-178.8	-56.65	N/A	DEG
Thru Cal Phase - 33	0	1.123	-39.27	-72.41	-33.14	N/A	DEG
Thru Cal Phase - 34	0	-0.2249	-40.92	-71.17	-30.24	N/A	DEG
Thru Cal Phase - 35	0	-0.05682	-35.78	-79.65	-43.88	N/A	DEG
Thru Cal Phase - 36	0	2.539	-130.2	-178.5	-48.31	N/A	DEG

Thru Cal Phase - 36	0	-2.339	-130.2	-178.5	-46.31	N/A	DEG
Thru Cal Phase - 37	0	-1.299	-131.6	-174.9	-43.37	N/A	DEG
Thru Cal Phase - 38	0	-2.138	-125.0	178.2	303.2	N/A	DEG
Thru Cal Phase - 39	0	1.103	-39.07	-72.28	-33.21	N/A	DEG
Thru Cal Phase - 40	0	-0.2412	-40.78	-71.02	-30.24	N/A	DEG
Thru Cal Phase - 41	0	-0.06242	-35.63	-79.51	-43.88	N/A	DEG
Thru Cal Phase - 42	0	-2.621	-129.7	-178.0	-48.32	N/A	DEG
Thru Cal Phase - 43	0	-1.341	-131.0	-174.4	-43.36	N/A	DEG
Thru Cal Phase - 44	0	-2.188	-124.4	178.8	303.2	N/A	DEG

3-D Array Induction Tool - ZAIT-C Wellsite Calibration - Electronics Calibration Check - Auxilliary

Master: Calibration out of date 19-Feb-2009 12:21 Before: 13-Nov-2010 16:54 After: 14-Nov-2010 3:07

Array Induction SPA Plus	0.8360	0.8423	0.8421	0.8416	-0.0004838	N/A	V
Array Induction SPA Zero	0	-0.001014	-0.001030	-0.001009	0.00002132	N/A	V
Array Induction Temperature Pl	0.9798	0.9881	0.9879	0.9876	-0.0002789	N/A	V
Array Induction Temperature Ze	0	-0.001336	-0.001312	-0.001288	0.00002436	N/A	V
Array Induction CalSig Plus	5.000	5.013	5.013	5.013	0.0002193	N/A	V
Array Induction CalSig Zero	0	-0.01065	-0.01047	-0.009963	0.0005052	N/A	V
Array Induction Volt Plus	5.000	5.013	5.013	5.013	0.0002193	N/A	V
Array Induction Volt Zero	0	-0.01065	-0.01047	-0.009963	0.0005052	N/A	V

3-D Array Induction Tool - ZAIT-C Wellsite Calibration - Field Check Sonde Error

Master: Calibration out of date 19-Feb-2009 12:21

R Sonde Error Check - 0	0	-15.77	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 1	0	10.19	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 2	0	0.1200	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 3	0	-4.161	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 4	0	2.269	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 5	0	-0.2519	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 6	0	-1.653	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 7	0	0.6767	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 8	0	-0.04222	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 9	0	0.1727	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 10	0	-0.01215	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 11	0	-2.933	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 12	0	0.1683	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 13	0	0.5469	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 14	0	1.343	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 15	0	-0.01488	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 16	0	-0.2304	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 17	0	-0.1579	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 18	0	0.2067	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 19	0	0.09814	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 20	0	-0.7504	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 21	0	0.1138	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 22	0	0.3292	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 23	0	0.1383	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 24	0	-0.1861	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 25	0	-0.005805	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 26	0	-0.01546	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 27	0	0.3387	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 28	0	-0.01110	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 29	0	-1.128	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 30	0	0.04314	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 31	0	0.8466	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 32	0	0.4608	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 33	0	0.4539	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 34	0	0.07626	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 35	0	-0.1547	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 36	0	0.3013	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 37	0	0.06581	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 38	0	-0.5113	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 39	0	0.1728	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 40	0	0.3544	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 41	0	-0.1169	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 42	0	-0.1942	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 43	0	-0.03649	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 44	0	0.02520	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 45	0	-0.3034	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 46	0	0.04300	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 47	0	0.2916	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 48	0	0.06045	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 49	0	0.2894	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 50	0	-0.3024	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 51	0	0.007545	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 52	0	0.03659	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 53	0	0.03907	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 54	0	0.05239	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 55	0	0.04056	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 56	0	0.3319	N/A	N/A	N/A	N/A	MM/M

R Sonde Error Check - 56	0	-0.3319	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 57	0	0.08452	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 58	0	0.1770	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 59	0	-0.2805	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 60	0	-0.1693	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 61	0	-0.1276	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 62	0	0.08576	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 63	0	-0.1626	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 64	0	-0.2403	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 65	0	0.2473	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 66	0	0.07368	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 67	0	0.3326	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 68	0	-0.5446	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 69	0	-0.1382	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 70	0	-0.1599	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 71	0	0.1287	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 72	0	0.03691	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 73	0	0.04194	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 74	0	-0.1831	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 75	0	0.05772	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 76	0	0.1402	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 77	0	-0.2115	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 78	0	-0.1311	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 79	0	-0.06975	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 80	0	0.08940	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 81	0	-0.1009	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 82	0	-0.1082	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 83	0	0.5169	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 84	0	-0.02193	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 85	0	0.05178	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 86	0	0.02210	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 87	0	0.07541	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 88	0	0.003239	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 89	0	0.02838	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 90	0	0.06008	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 91	0	0.05876	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 92	0	-0.07117	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 93	0	0.1681	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 94	0	0.1242	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 95	0	-0.2545	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 96	0	-0.2199	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 97	0	-0.05712	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 98	0	0.04692	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 99	0	-0.3180	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 100	0	0.1631	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 101	0	0.1847	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 102	0	0.08262	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 103	0	0.4727	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 104	0	0.01083	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 105	0	0.1126	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 106	0	-0.1191	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 107	0	-0.08582	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 108	0	-0.02287	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 109	0	0.03154	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 110	0	-0.07768	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 111	0	0.1085	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 112	0	0.2269	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 113	0	-0.2676	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 114	0	-0.1074	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 115	0	-0.04919	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 116	0	0.1090	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 0	0	-15.25	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 1	0	24.49	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 2	0	-0.009766	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 3	0	-0.3639	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 4	0	2.941	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 5	0	-0.01884	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 6	0	0.9777	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 7	0	0.3237	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 8	0	0.04117	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 9	0	-0.9180	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 10	0	0.06274	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 11	0	1.666	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 12	0	-0.1598	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 13	0	-0.7540	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 14	0	-0.3389	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 15	0	2.336	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 16	0	-1.509	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 17	0	0.01291	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 18	0	0.5140	N/A	N/A	N/A	N/A	MM/M

X Sonde Error Check - 18	0	-0.5140	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 19	0	-0.08325	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 20	0	1.015	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 21	0	-0.1290	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 22	0	-0.6386	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 23	0	0.03632	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 24	0	1.420	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 25	0	-0.5731	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 26	0	-0.07972	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 27	0	0.4684	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 28	0	-0.05457	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 29	0	0.9135	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 30	0	-0.05426	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 31	0	-0.3618	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 32	0	0.3517	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 33	0	4.021	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 34	0	-1.936	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 35	0	-0.05334	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 36	0	-0.1129	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 37	0	-0.07947	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 38	0	0.6889	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 39	0	-0.2104	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 40	0	-0.2524	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 41	0	0.5297	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 42	0	2.177	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 43	0	-0.7091	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 44	0	-0.1002	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 45	0	-0.8610	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 46	0	-0.1006	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 47	0	0.2090	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 48	0	-0.4858	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 49	0	-0.4226	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 50	0	0.5052	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 51	0	0.3641	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 52	0	0.09955	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 53	0	0.02836	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 54	0	-0.9942	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 55	0	-0.1230	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 56	0	0.4587	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 57	0	-0.2100	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 58	0	-0.4695	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 59	0	0.5564	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 60	0	0.3177	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 61	0	0.2410	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 62	0	-0.08274	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 63	0	-0.2981	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 64	0	-0.1666	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 65	0	-0.04198	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 66	0	-0.005737	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 67	0	0.1223	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 68	0	0.3058	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 69	0	1.924	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 70	0	-0.7292	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 71	0	0.06215	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 72	0	-0.4117	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 73	0	-0.1697	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 74	0	0.1960	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 75	0	-0.04150	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 76	0	-0.1396	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 77	0	0.4394	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 78	0	1.013	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 79	0	-0.2236	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 80	0	-0.1473	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 81	0	-0.7759	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 82	0	-0.1352	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 83	0	-0.9828	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 84	0	0.1194	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 85	0	-0.05931	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 86	0	0.4675	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 87	0	-1.367	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 88	0	0.8895	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 89	0	0.3034	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 90	0	-0.6125	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 91	0	-0.1329	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 92	0	-0.04096	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 93	0	-0.1133	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 94	0	-0.4075	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 95	0	0.5435	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 96	0	-0.6305	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 97	0	0.4593	N/A	N/A	N/A	N/A	MM/M

X Sonde Error Check - 97	0	0.4395	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 98	0	-0.05555	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 99	0	-0.4892	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 100	0	-0.2477	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 101	0	-0.1473	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 102	0	0.09483	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 103	0	0.2861	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 104	0	0.08961	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 105	0	-0.4229	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 106	0	0.1263	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 107	0	0.1774	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 108	0	-0.7440	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 109	0	-0.1913	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 110	0	0.1307	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 111	0	-0.07482	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 112	0	-0.5496	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 113	0	0.3585	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 114	0	0.07611	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 115	0	0.1731	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 116	0	-0.1079	N/A	N/A	N/A	N/A	MM/M

3-D Array Induction Tool - ZAIT-C Master Calibration - Sonde Error Correction
Master: Calibration out of date 19-Feb-2009 12:21

R Sonde Error Correction - 0	0	-569.9	--	--	--	--	MM/M
R Sonde Error Correction - 1	0	668.2	--	--	--	--	MM/M
R Sonde Error Correction - 2	0	-1316	--	--	--	--	MM/M
R Sonde Error Correction - 3	0	-178.6	--	--	--	--	MM/M
R Sonde Error Correction - 4	0	199.8	--	--	--	--	MM/M
R Sonde Error Correction - 5	0	217.7	--	--	--	--	MM/M
R Sonde Error Correction - 6	0	-42.60	--	--	--	--	MM/M
R Sonde Error Correction - 7	0	76.68	--	--	--	--	MM/M
R Sonde Error Correction - 8	0	-0.9082	--	--	--	--	MM/M
R Sonde Error Correction - 9	0	-667.6	--	--	--	--	MM/M
R Sonde Error Correction - 10	0	-114.0	--	--	--	--	MM/M
R Sonde Error Correction - 11	0	-108.7	--	--	--	--	MM/M
R Sonde Error Correction - 12	0	44.91	--	--	--	--	MM/M
R Sonde Error Correction - 13	0	-662.8	--	--	--	--	MM/M
R Sonde Error Correction - 14	0	131.9	--	--	--	--	MM/M
R Sonde Error Correction - 15	0	0.5598	--	--	--	--	MM/M
R Sonde Error Correction - 16	0	18.03	--	--	--	--	MM/M
R Sonde Error Correction - 17	0	55.16	--	--	--	--	MM/M
R Sonde Error Correction - 18	0	-402.6	--	--	--	--	MM/M
R Sonde Error Correction - 19	0	-48.37	--	--	--	--	MM/M
R Sonde Error Correction - 20	0	-28.47	--	--	--	--	MM/M
R Sonde Error Correction - 21	0	24.48	--	--	--	--	MM/M
R Sonde Error Correction - 22	0	-392.5	--	--	--	--	MM/M
R Sonde Error Correction - 23	0	35.87	--	--	--	--	MM/M
R Sonde Error Correction - 24	0	-13.00	--	--	--	--	MM/M
R Sonde Error Correction - 25	0	12.29	--	--	--	--	MM/M
R Sonde Error Correction - 26	0	16.94	--	--	--	--	MM/M
R Sonde Error Correction - 27	0	-606.1	--	--	--	--	MM/M
R Sonde Error Correction - 28	0	-12.15	--	--	--	--	MM/M
R Sonde Error Correction - 29	0	-22.48	--	--	--	--	MM/M
R Sonde Error Correction - 30	0	25.85	--	--	--	--	MM/M
R Sonde Error Correction - 31	0	-675.3	--	--	--	--	MM/M
R Sonde Error Correction - 32	0	61.35	--	--	--	--	MM/M
R Sonde Error Correction - 33	0	37.28	--	--	--	--	MM/M
R Sonde Error Correction - 34	0	2.983	--	--	--	--	MM/M
R Sonde Error Correction - 35	0	133.0	--	--	--	--	MM/M
R Sonde Error Correction - 36	0	-620.2	--	--	--	--	MM/M
R Sonde Error Correction - 37	0	-3.264	--	--	--	--	MM/M
R Sonde Error Correction - 38	0	1.782	--	--	--	--	MM/M
R Sonde Error Correction - 39	0	15.25	--	--	--	--	MM/M
R Sonde Error Correction - 40	0	-689.5	--	--	--	--	MM/M
R Sonde Error Correction - 41	0	15.96	--	--	--	--	MM/M
R Sonde Error Correction - 42	0	31.29	--	--	--	--	MM/M
R Sonde Error Correction - 43	0	-4.741	--	--	--	--	MM/M
R Sonde Error Correction - 44	0	58.73	--	--	--	--	MM/M
R Sonde Error Correction - 45	0	-21.36	--	--	--	--	MM/M
R Sonde Error Correction - 46	0	115.3	--	--	--	--	MM/M
R Sonde Error Correction - 47	0	-20.98	--	--	--	--	MM/M
R Sonde Error Correction - 48	0	-108.6	--	--	--	--	MM/M
R Sonde Error Correction - 49	0	-16.84	--	--	--	--	MM/M
R Sonde Error Correction - 50	0	19.23	--	--	--	--	MM/M
R Sonde Error Correction - 51	0	-15.81	--	--	--	--	MM/M
R Sonde Error Correction - 52	0	8.480	--	--	--	--	MM/M
R Sonde Error Correction - 53	0	60.17	--	--	--	--	MM/M
R Sonde Error Correction - 54	0	-63.76	--	--	--	--	MM/M
R Sonde Error Correction - 55	0	9.889	--	--	--	--	MM/M
R Sonde Error Correction - 56	0	-3.680	--	--	--	--	MM/M

R Sonde Error Correction - 57	0	-9.960	--	--	--	--	MM/M
R Sonde Error Correction - 58	0	-60.71	--	--	--	--	MM/M
R Sonde Error Correction - 59	0	4.170	--	--	--	--	MM/M
R Sonde Error Correction - 60	0	-2.031	--	--	--	--	MM/M
R Sonde Error Correction - 61	0	2.065	--	--	--	--	MM/M
R Sonde Error Correction - 62	0	32.95	--	--	--	--	MM/M
R Sonde Error Correction - 63	0	-28.80	--	--	--	--	MM/M
R Sonde Error Correction - 64	0	-31.19	--	--	--	--	MM/M
R Sonde Error Correction - 65	0	-5.482	--	--	--	--	MM/M
R Sonde Error Correction - 66	0	37.25	--	--	--	--	MM/M
R Sonde Error Correction - 67	0	-22.81	--	--	--	--	MM/M
R Sonde Error Correction - 68	0	5.999	--	--	--	--	MM/M
R Sonde Error Correction - 69	0	-3.024	--	--	--	--	MM/M
R Sonde Error Correction - 70	0	2.375	--	--	--	--	MM/M
R Sonde Error Correction - 71	0	26.87	--	--	--	--	MM/M
R Sonde Error Correction - 72	0	-36.75	--	--	--	--	MM/M
R Sonde Error Correction - 73	0	-5.449	--	--	--	--	MM/M
R Sonde Error Correction - 74	0	-1.005	--	--	--	--	MM/M
R Sonde Error Correction - 75	0	6.186	--	--	--	--	MM/M
R Sonde Error Correction - 76	0	-33.40	--	--	--	--	MM/M
R Sonde Error Correction - 77	0	1.521	--	--	--	--	MM/M
R Sonde Error Correction - 78	0	1.239	--	--	--	--	MM/M
R Sonde Error Correction - 79	0	1.577	--	--	--	--	MM/M
R Sonde Error Correction - 80	0	19.53	--	--	--	--	MM/M
R Sonde Error Correction - 81	0	-55.28	--	--	--	--	MM/M
R Sonde Error Correction - 82	0	-2.148	--	--	--	--	MM/M
R Sonde Error Correction - 83	0	-1.628	--	--	--	--	MM/M
R Sonde Error Correction - 84	0	5.716	--	--	--	--	MM/M
R Sonde Error Correction - 85	0	-50.09	--	--	--	--	MM/M
R Sonde Error Correction - 86	0	-1.188	--	--	--	--	MM/M
R Sonde Error Correction - 87	0	-1.422	--	--	--	--	MM/M
R Sonde Error Correction - 88	0	0.3932	--	--	--	--	MM/M
R Sonde Error Correction - 89	0	10.80	--	--	--	--	MM/M
R Sonde Error Correction - 90	0	-55.32	--	--	--	--	MM/M
R Sonde Error Correction - 91	0	-0.8870	--	--	--	--	MM/M
R Sonde Error Correction - 92	0	-1.117	--	--	--	--	MM/M
R Sonde Error Correction - 93	0	1.977	--	--	--	--	MM/M
R Sonde Error Correction - 94	0	-52.56	--	--	--	--	MM/M
R Sonde Error Correction - 95	0	-0.6297	--	--	--	--	MM/M
R Sonde Error Correction - 96	0	0.6486	--	--	--	--	MM/M
R Sonde Error Correction - 97	0	0.7669	--	--	--	--	MM/M
R Sonde Error Correction - 98	0	14.78	--	--	--	--	MM/M
R Sonde Error Correction - 99	0	-69.86	--	--	--	--	MM/M
R Sonde Error Correction - 100	0	-2.869	--	--	--	--	MM/M
R Sonde Error Correction - 101	0	1.455	--	--	--	--	MM/M
R Sonde Error Correction - 102	0	4.927	--	--	--	--	MM/M
R Sonde Error Correction - 103	0	-65.31	--	--	--	--	MM/M
R Sonde Error Correction - 104	0	-3.367	--	--	--	--	MM/M
R Sonde Error Correction - 105	0	3.165	--	--	--	--	MM/M
R Sonde Error Correction - 106	0	0.7198	--	--	--	--	MM/M
R Sonde Error Correction - 107	0	-8.678	--	--	--	--	MM/M
R Sonde Error Correction - 108	0	-69.18	--	--	--	--	MM/M
R Sonde Error Correction - 109	0	-1.313	--	--	--	--	MM/M
R Sonde Error Correction - 110	0	-0.2046	--	--	--	--	MM/M
R Sonde Error Correction - 111	0	2.101	--	--	--	--	MM/M
R Sonde Error Correction - 112	0	-67.98	--	--	--	--	MM/M
R Sonde Error Correction - 113	0	-1.237	--	--	--	--	MM/M
R Sonde Error Correction - 114	0	2.242	--	--	--	--	MM/M
R Sonde Error Correction - 115	0	0.04165	--	--	--	--	MM/M
R Sonde Error Correction - 116	0	-6.983	--	--	--	--	MM/M
X Sonde Error Correction - 0	0	5747	--	--	--	--	MM/M
X Sonde Error Correction - 1	0	-2469	--	--	--	--	MM/M
X Sonde Error Correction - 2	0	1496	--	--	--	--	MM/M
X Sonde Error Correction - 3	0	1080	--	--	--	--	MM/M
X Sonde Error Correction - 4	0	-938.9	--	--	--	--	MM/M
X Sonde Error Correction - 5	0	-44.74	--	--	--	--	MM/M
X Sonde Error Correction - 6	0	-166.6	--	--	--	--	MM/M
X Sonde Error Correction - 7	0	-281.4	--	--	--	--	MM/M
X Sonde Error Correction - 8	0	197.4	--	--	--	--	MM/M
X Sonde Error Correction - 9	0	1015	--	--	--	--	MM/M
X Sonde Error Correction - 10	0	3235	--	--	--	--	MM/M
X Sonde Error Correction - 11	0	1990	--	--	--	--	MM/M
X Sonde Error Correction - 12	0	-1147	--	--	--	--	MM/M
X Sonde Error Correction - 13	0	1021	--	--	--	--	MM/M
X Sonde Error Correction - 14	0	613.8	--	--	--	--	MM/M
X Sonde Error Correction - 15	0	619.2	--	--	--	--	MM/M
X Sonde Error Correction - 16	0	-558.9	--	--	--	--	MM/M
X Sonde Error Correction - 17	0	-11.95	--	--	--	--	MM/M
X Sonde Error Correction - 18	0	144.3	--	--	--	--	MM/M

X Sonde Error Correction - 19	0	1584	--	--	--	--	MM/M
X Sonde Error Correction - 20	0	992.3	--	--	--	--	MM/M
X Sonde Error Correction - 21	0	-560.5	--	--	--	--	MM/M
X Sonde Error Correction - 22	0	100.7	--	--	--	--	MM/M
X Sonde Error Correction - 23	0	320.2	--	--	--	--	MM/M
X Sonde Error Correction - 24	0	284.3	--	--	--	--	MM/M
X Sonde Error Correction - 25	0	-297.1	--	--	--	--	MM/M
X Sonde Error Correction - 26	0	-32.21	--	--	--	--	MM/M
X Sonde Error Correction - 27	0	-174.7	--	--	--	--	MM/M
X Sonde Error Correction - 28	0	562.9	--	--	--	--	MM/M
X Sonde Error Correction - 29	0	203.0	--	--	--	--	MM/M
X Sonde Error Correction - 30	0	-593.0	--	--	--	--	MM/M
X Sonde Error Correction - 31	0	-172.7	--	--	--	--	MM/M
X Sonde Error Correction - 32	0	-432.6	--	--	--	--	MM/M
X Sonde Error Correction - 33	0	-31.44	--	--	--	--	MM/M
X Sonde Error Correction - 34	0	-873.5	--	--	--	--	MM/M
X Sonde Error Correction - 35	0	-98.89	--	--	--	--	MM/M
X Sonde Error Correction - 36	0	9.242	--	--	--	--	MM/M
X Sonde Error Correction - 37	0	277.4	--	--	--	--	MM/M
X Sonde Error Correction - 38	0	100.1	--	--	--	--	MM/M
X Sonde Error Correction - 39	0	-298.5	--	--	--	--	MM/M
X Sonde Error Correction - 40	0	32.52	--	--	--	--	MM/M
X Sonde Error Correction - 41	0	-208.4	--	--	--	--	MM/M
X Sonde Error Correction - 42	0	-17.15	--	--	--	--	MM/M
X Sonde Error Correction - 43	0	-433.2	--	--	--	--	MM/M
X Sonde Error Correction - 44	0	2.465	--	--	--	--	MM/M
X Sonde Error Correction - 45	0	12.45	--	--	--	--	MM/M
X Sonde Error Correction - 46	0	-4419	--	--	--	--	MM/M
X Sonde Error Correction - 47	0	450.0	--	--	--	--	MM/M
X Sonde Error Correction - 48	0	5007	--	--	--	--	MM/M
X Sonde Error Correction - 49	0	3.113	--	--	--	--	MM/M
X Sonde Error Correction - 50	0	22.84	--	--	--	--	MM/M
X Sonde Error Correction - 51	0	717.0	--	--	--	--	MM/M
X Sonde Error Correction - 52	0	-288.5	--	--	--	--	MM/M
X Sonde Error Correction - 53	0	-14.15	--	--	--	--	MM/M
X Sonde Error Correction - 54	0	-31.67	--	--	--	--	MM/M
X Sonde Error Correction - 55	0	-2205	--	--	--	--	MM/M
X Sonde Error Correction - 56	0	225.7	--	--	--	--	MM/M
X Sonde Error Correction - 57	0	2502	--	--	--	--	MM/M
X Sonde Error Correction - 58	0	-33.44	--	--	--	--	MM/M
X Sonde Error Correction - 59	0	15.81	--	--	--	--	MM/M
X Sonde Error Correction - 60	0	354.0	--	--	--	--	MM/M
X Sonde Error Correction - 61	0	-141.4	--	--	--	--	MM/M
X Sonde Error Correction - 62	0	7.243	--	--	--	--	MM/M
X Sonde Error Correction - 63	0	201.4	--	--	--	--	MM/M
X Sonde Error Correction - 64	0	1490	--	--	--	--	MM/M
X Sonde Error Correction - 65	0	82.23	--	--	--	--	MM/M
X Sonde Error Correction - 66	0	-1510	--	--	--	--	MM/M
X Sonde Error Correction - 67	0	202.5	--	--	--	--	MM/M
X Sonde Error Correction - 68	0	26.55	--	--	--	--	MM/M
X Sonde Error Correction - 69	0	173.0	--	--	--	--	MM/M
X Sonde Error Correction - 70	0	-37.45	--	--	--	--	MM/M
X Sonde Error Correction - 71	0	36.41	--	--	--	--	MM/M
X Sonde Error Correction - 72	0	24.90	--	--	--	--	MM/M
X Sonde Error Correction - 73	0	738.3	--	--	--	--	MM/M
X Sonde Error Correction - 74	0	41.22	--	--	--	--	MM/M
X Sonde Error Correction - 75	0	-748.3	--	--	--	--	MM/M
X Sonde Error Correction - 76	0	24.67	--	--	--	--	MM/M
X Sonde Error Correction - 77	0	15.28	--	--	--	--	MM/M
X Sonde Error Correction - 78	0	82.95	--	--	--	--	MM/M
X Sonde Error Correction - 79	0	-18.99	--	--	--	--	MM/M
X Sonde Error Correction - 80	0	3.451	--	--	--	--	MM/M
X Sonde Error Correction - 81	0	215.2	--	--	--	--	MM/M
X Sonde Error Correction - 82	0	10.08	--	--	--	--	MM/M
X Sonde Error Correction - 83	0	67.59	--	--	--	--	MM/M
X Sonde Error Correction - 84	0	-104.0	--	--	--	--	MM/M
X Sonde Error Correction - 85	0	227.0	--	--	--	--	MM/M
X Sonde Error Correction - 86	0	11.93	--	--	--	--	MM/M
X Sonde Error Correction - 87	0	67.31	--	--	--	--	MM/M
X Sonde Error Correction - 88	0	8.681	--	--	--	--	MM/M
X Sonde Error Correction - 89	0	112.4	--	--	--	--	MM/M
X Sonde Error Correction - 90	0	41.18	--	--	--	--	MM/M
X Sonde Error Correction - 91	0	-3.812	--	--	--	--	MM/M
X Sonde Error Correction - 92	0	36.64	--	--	--	--	MM/M
X Sonde Error Correction - 93	0	-41.61	--	--	--	--	MM/M
X Sonde Error Correction - 94	0	48.78	--	--	--	--	MM/M
X Sonde Error Correction - 95	0	6.599	--	--	--	--	MM/M
X Sonde Error Correction - 96	0	29.41	--	--	--	--	MM/M
X Sonde Error Correction - 97	0	5.074	--	--	--	--	MM/M

X Sonde Error Correction - 98	0	-1.164	--	--	--	--	MM/M
X Sonde Error Correction - 99	0	9.439	--	--	--	--	MM/M
X Sonde Error Correction - 100	0	54.56	--	--	--	--	MM/M
X Sonde Error Correction - 101	0	-9.553	--	--	--	--	MM/M
X Sonde Error Correction - 102	0	-65.39	--	--	--	--	MM/M
X Sonde Error Correction - 103	0	14.08	--	--	--	--	MM/M
X Sonde Error Correction - 104	0	-6.343	--	--	--	--	MM/M
X Sonde Error Correction - 105	0	-40.22	--	--	--	--	MM/M
X Sonde Error Correction - 106	0	-52.92	--	--	--	--	MM/M
X Sonde Error Correction - 107	0	-7.869	--	--	--	--	MM/M
X Sonde Error Correction - 108	0	98.80	--	--	--	--	MM/M
X Sonde Error Correction - 109	0	28.63	--	--	--	--	MM/M
X Sonde Error Correction - 110	0	-6.098	--	--	--	--	MM/M
X Sonde Error Correction - 111	0	-33.53	--	--	--	--	MM/M
X Sonde Error Correction - 112	0	101.8	--	--	--	--	MM/M
X Sonde Error Correction - 113	0	-2.210	--	--	--	--	MM/M
X Sonde Error Correction - 114	0	-19.17	--	--	--	--	MM/M
X Sonde Error Correction - 115	0	-25.92	--	--	--	--	MM/M
X Sonde Error Correction - 116	0	38.16	--	--	--	--	MM/M

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Stab Measurement Summary
Before: 13-Nov-2010 17:07

BS Window Ratio	0.7447	N/A	0.7449	N/A	N/A	N/A	
BS Window Sum	28840	N/A	28720	N/A	N/A	N/A	CPS
SS Window Ratio	0.4772	N/A	0.4760	N/A	N/A	N/A	
SS Window Sum	12310	N/A	12290	N/A	N/A	N/A	CPS
LS Window Ratio	0.3009	N/A	0.3011	N/A	N/A	N/A	
LS Window Sum	1430	N/A	1429	N/A	N/A	N/A	CPS

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Photo-multiplier High Voltages Calibrations
Before: 13-Nov-2010 17:07

BS PM High Voltage (Command)	1594	N/A	1619	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1452	N/A	1461	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1253	N/A	1253	N/A	N/A	N/A	V

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Crystal Quality Resolutions Calibration
Before: 13-Nov-2010 17:07

BS Crystal Resolution	12.37	N/A	12.48	N/A	N/A	N/A	%
SS Crystal Resolution	8.979	N/A	8.946	N/A	N/A	N/A	%
LS Crystal Resolution	8.242	N/A	8.277	N/A	N/A	N/A	%

High resolution Integrated Logging Tool-DTS Wellsite Calibration - MCFL Calibration
Before: 13-Nov-2010 17:09

Raw B0 Resistivity	3875	N/A	3858	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3797	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3811	N/A	N/A	N/A	OHMM

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HILT Caliper Calibration
Before: 13-Nov-2010 17:09

HILT Caliper Zero Measurement	8.000	N/A	8.271	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.69	N/A	N/A	N/A	IN

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HRLT M01
Before: 14-Nov-2010 2:14

HRLT M0-M1 Voltage Plus - 0	0	N/A	-317.1	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-319.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-324.4	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-324.1	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-319.5	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-323.1	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	314.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 7	0	N/A	-322.7	N/A	N/A	9.681	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HRLT M12
Before: 14-Nov-2010 2:14

HRLT M1-M2 Voltage Plus - 0	0	N/A	1753	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1771	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1790	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1789	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1763	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1784	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1750	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 7	0	N/A	1781	N/A	N/A	53.42	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HRLT M23
Before: 14-Nov-2010 2:14

HRLT M2-M3 Voltage Plus - 0	0	N/A	1733	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1759	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1781	N/A	N/A	53.42	UV

HRLT M2-M3 Voltage Plus - 3	0	N/A	1784	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1752	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1775	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1728	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 7	0	N/A	1781	N/A	N/A	53.42	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HRLT V34
Before: 14-Nov-2010 2:14

HRLT A3-A4 Voltage Plus - 0	0	N/A	68430	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	69370	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	70490	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	70800	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	69490	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	70340	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-67200	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HRLT V45
Before: 14-Nov-2010 2:14

HRLT A4-A5 Voltage Plus - 0	0	N/A	68100	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	69250	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	70340	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	70640	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	69300	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	70140	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-67040	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HRLT V56
Before: 14-Nov-2010 2:14

HRLT A5-A6 Voltage Plus - 0	0	N/A	68140	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	69210	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	70290	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	70570	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	69230	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	70050	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-67030	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HRLT VTP
Before: 14-Nov-2010 2:14

HRLT Torpedo-M0 Voltage - 0	0	N/A	-67860	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-69230	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-70360	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-70710	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-69420	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-70260	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	66980	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HRLT VBD
Before: 14-Nov-2010 2:14

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-67810	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-69110	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-70250	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-70610	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-69370	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-70220	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	66870	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HRLT ISO
Before: 14-Nov-2010 2:14

HRLT Source Current Plus - 0	0	N/A	283.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 7	0	N/A	281.1	N/A	N/A	8.520	UA

High resolution Integrated Logging Tool-DTS Wellsite Calibration - HRLT MV
Before: 14-Nov-2010 2:14

HRLT Vertical Voltage Pl - 0	0	N/A	-319.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl - 1	0	N/A	-315.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl - 2	0	N/A	-318.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl - 3	0	N/A	-316.9	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl - 4	0	N/A	-308.9	N/A	N/A	9.681	UV

HRLT Vertical Voltage Pl - 5	0	N/A	-327.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl - 6	0	N/A	323.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl - 7	0	N/A	-322.7	N/A	N/A	9.681	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Detector Calibration
Before: 13-Nov-2010 17:05

Gamma Ray Background	30.00	N/A	78.60	N/A	N/A	N/A	GAPI
Gamma Ray (Jig - Bkgd)	165.0	N/A	177.3	N/A	N/A	15.00	GAPI

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Zero Measurement
Master: 4-Sep-2010 14:31 Before: 13-Nov-2010 17:29

CNTC Background	27.70	27.70	26.67	N/A	N/A	4.155	CPS
CFTC Background	25.54	25.54	27.06	N/A	N/A	3.831	CPS

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Ratio Measurement
Master: 4-Sep-2010 14:31

Thermal Near Corr. (Tank)	5800	5486	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2294	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.391	N/A	N/A	N/A	N/A	

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Accelerometer Calibration
Before: 14-Nov-2010 0:34

Z-Axis Acceleration	32.19	N/A	32.05	N/A	N/A	N/A	F/S2

High resolution Integrated Logging Tool-DTS Master Calibration - Inversion results
Master: 20-Oct-2010 16:07

Rho Aluminum	2.596	2.599	--	--	--	--	G/C3
Rho Magnesium	1.686	1.689	--	--	--	--	G/C3
Pe Aluminum	2.570	2.513	--	--	--	--	
Pe Magnesium	2.650	2.640	--	--	--	--	

High resolution Integrated Logging Tool-DTS Master Calibration - Deviation Summary
Master: 20-Oct-2010 16:07

BS Average Deviation	0	0.2448	--	--	--	--	%
BS Max Deviation	0	0.6182	--	--	--	--	%
SS Average Deviation	0	0.4150	--	--	--	--	%
SS Max Deviation	0	1.140	--	--	--	--	%
LS Average Deviation	0	0.4590	--	--	--	--	%
LS Max Deviation	0	1.217	--	--	--	--	%

General Purpose Inclinometer Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY
Before: 14-Nov-2010 1:49

TEMPERATURE REFERENCE :	N/A	N/A	68	N/A	N/A	N/A	DEGF
YEAR OF CALIBRATION :	N/A	N/A	7	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	2	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	1083	N/A	N/A	N/A	

General Purpose Inclinometer Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY
Before: 14-Nov-2010 1:49

TEMPERATURE REFERENCE :	N/A	N/A	64	N/A	N/A	N/A	DEGF
YEAR OF CALIBRATION :	N/A	N/A	4	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	11	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	673	N/A	N/A	N/A	

Enhanced DTS Cartridge Wellsite Calibration - EDTC Accelerometer Calibration
Before: 14-Nov-2010 0:34

EDTC Z-Axis Acceleration	32.19	N/A	32.13	N/A	N/A	N/A	F/S2

Enhanced DTS Cartridge Wellsite Calibration - Detector Calibration
Before: 13-Nov-2010 17:06 After: Calibration not done

Gamma Ray (Jig - Bkg)	160.5	N/A	160.5	N/A	N/A	14.59	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

The GLS-VJ source activity is acceptable.

The HGNS Neutron Master Calibration was done with the following parameters :

NCT-B Water Temperature	72.0	DEGF.
Thermal Housing Size	3.370	IN.
NSR-F serial number	2395	

3-D Array Induction Tool - ZAIT-C / Equipment Identification

Primary Equipment:

Rm/SP Bottom Nose	AHRM - A	
3-D Array Induction Sonde	AXIS - A	17

Auxiliary Equipment:

3-D Array Induction Tool - ZAIT-C Wellsite Calibration

Electronics Calibration Check - Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude MM/M	Nominal	Value	Thru Cal Phase DEG	Nominal
0	Master	1.473		1.456	2.501		0
	Before	2.090	EXCEEDS LIMIT		-125.3		
	After	1.460			-173.7		
1	Master	1.488		1.456	3.776		0
	Before	2.022			-126.6		
	After	1.467			-170.0		
2	Master	1.441		1.456	2.915		0
	Before	1.773			-120.0		
	After	1.433			-176.8		
3	Master	3.391		3.352	-0.9908		0
	Before	4.812	EXCEEDS LIMIT		-126.9		
	After	3.367			-175.1		
4	Master	3.426		3.352	0.2952		0
	Before	4.657			-128.2		
	After	3.381			-171.4		
5	Master	3.319		3.352	-0.5639		0
	Before	4.083			-121.5		
	After	3.305			-178.2		
6	Master	2.716		2.680	-2.616		0
	Before	3.851	EXCEEDS LIMIT		-129.4		
	After	2.689			-177.7		
7	Master	2.743		2.680	-1.337		0
	Before	3.725			-130.7		
	After	2.701			-174.0		
8	Master	2.658		2.680	-2.222		0
	Before	3.270			-124.1		
	After	2.640			179.1		
9	Master	1.889		1.956	3.916		0
	Before	2.301			-36.12		
	After	1.835			-69.29		
10	Master	1.887		1.956	2.558		0
	Before	2.360			-37.76		
	After	1.830			-68.03		
11	Master	1.867		1.956	2.736		0
	Before	2.111			-32.61		
	After	1.826			-76.51		

	Master	3.532			2.553	
12	Before	5.011	EXCEEDS LIMIT	3.537	-125.7	0
	After	3.497			-174.0	
	Master	3.568			3.797	
13	Before	4.844		3.537	-127.0	0
	After	3.512			-170.4	
	Master	3.456			2.958	
14	Before	4.235		3.537	-120.4	0
	After	3.433			-177.2	
	Master	3.036			3.937	
15	Before	3.687		3.100	-36.40	0
	After	2.948			-69.65	
	Master	3.033			2.593	
16	Before	3.793		3.100	-38.10	0
	After	2.941			-68.39	
	Master	3.001			2.774	
17	Before	3.393		3.100	-32.95	0
	After	2.934			-76.86	
	Master	0.9342			2.447	
18	Before	1.325	EXCEEDS LIMIT	0.9359	-125.0	0
	After	0.9250			-173.3	
	Master	0.9445			3.716	
19	Before	1.283		0.9359	-126.3	0
	After	0.9299			-169.7	
	Master	0.9149			2.886	
20	Before	1.127		0.9359	-119.7	0
	After	0.9088			-176.5	
	Master	4.030			1.294	
21	Before	4.909		4.081	-37.87	0
	After	3.918			-70.90	
	Master	4.025			-0.05280	
22	Before	5.035		4.081	-39.52	0
	After	3.909			-69.64	
	Master	3.983			0.1241	
23	Before	4.503		4.081	-34.36	0
	After	3.899			-78.12	
	Master	1.364			-0.9613	
24	Before	1.935	EXCEEDS LIMIT	1.362	-127.4	0
	After	1.352			-175.5	
	Master	1.379			0.2775	
25	Before	1.872		1.362	-128.7	0
	After	1.359			-171.9	
	Master	1.336			-0.5624	

26	Before	1.637	1.362	-122.1		0
	After	1.328		-178.8		
	Master	4.030		1.289		
27	Before	4.894	4.081	-37.81		0
	After	3.918		-70.91		
	Master	4.025		-0.05447		
28	Before	5.035	4.081	-39.52		0
	After	3.909		-69.64		
	Master	3.983		0.1240		
29	Before	4.503	4.081	-34.36		0
	After	3.899		-78.12		
	Master	1.364		-0.9981		
30	Before	1.934	EXCEEDS LIMIT 1.362	-127.4		0
	After	1.352		-175.5		
	Master	1.379		0.2827		
31	Before	1.873	1.362	-128.7		0
	After	1.359		-171.9		
	Master	1.336		-0.5556		
32	Before	1.644	1.362	-122.1		0
	After	1.328		-178.8		
	Master	1.167		1.123		
33	Before	1.421	1.220	-39.27		0
	After	1.132		-72.41		
	Master	1.168		-0.2249		
34	Before	1.459	1.220	-40.92		0
	After	1.131		-71.17		
	Master	1.156		-0.05682		
35	Before	1.306	1.220	-35.78		0
	After	1.129		-79.65		
	Master	1.615		-2.539		
36	Before	2.290	EXCEEDS LIMIT 1.635	-130.2		0
	After	1.598		-178.5		
	Master	1.633		-1.299		
37	Before	2.216	1.635	-131.6		0
	After	1.606		-174.9		
	Master	1.582		-2.138		
38	Before	1.937	1.635	-125.0		0
	After	1.570		178.2		
	Master	1.403		1.103		
39	Before	1.702	1.464	-39.07		0
	After	1.361		-72.28		
	Master	1.403		-0.2412		
40	Before	1.754	1.464	-40.78		0

	After	1.360		-71.02		
41	Master	1.389		-0.06242		
	Before	1.569	1.464	-35.63		0
	After	1.356		-79.51		
42	Master	2.334		-2.621		
	Before	3.307	EXCEEDS LIMIT 2.353	-129.7		0
	After	2.308		-178.0		
43	Master	2.359		-1.341		
	Before	3.202	2.353	-131.0		0
	After	2.320		-174.4		
44	Master	2.285		-2.188		
	Before	2.811	2.353	-124.4		0
	After	2.267		178.8		
		60.00 % (Minimum) (Nominal)	140.0 % (Maximum)	Nom -180.0 (Minimum) (Nominal)	Nom + 180.0 (Maximum)	

Master: Calibration out of date 19-Feb-2009 12:21 Before: 13-Nov-2010 16:54

After: 14-Nov-2010 3:07

3-D Array Induction Tool - ZAIT-C Wellsite Calibration

Electronics Calibration Check - Auxilliary

Phase	Array Induction SPA Plus V	Value	Phase	Array Induction SPA Zero V	Value
Master		0.8423	Master		-0.001014
Before		0.8421	Before		-0.001030
After		0.8416	After		-0.001009
	0.7570 (Minimum) 0.8360 (Nominal) 0.9150 (Maximum)			-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value
Master		0.9881	Master		-0.001336
Before		0.9879	Before		-0.001312
After		0.9876	After		-0.001288
	0.8800 (Minimum) 0.9798 (Nominal) 1.076 (Maximum)			-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Phase	Array Induction CalSig Plus V	Value	Phase	Array Induction CalSig Zero V	Value
Master		5.013	Master		-0.01065
Before		5.013	Before		-0.01047
After		5.013	After		-0.009963
	4.500 (Minimum) 5.000 (Nominal) 5.500 (Maximum)			-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Phase	Array Induction Volt Plus V	Value	Phase	Array Induction Volt Zero V	Value
Master		5.013	Master		-0.01065
Before		5.013	Before		-0.01047
After		5.013	After		-0.009963
	4.500 (Minimum) 5.000 (Nominal) 5.500 (Maximum)			-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Master: Calibration out of date 19-Feb-2009 12:21 Before: 13-Nov-2010 16:54

After: 14-Nov-2010 3:07

3-D Array Induction Tool - ZAIT-C Wellsite Calibration

Field Check Sonde Error

Idx	Value	R Sonde Error Check MM/M	Value	X Sonde Error Check MM/M
0	-15.77		-15.25	
		-1531 (Minimum) 0 (Nominal) 1531 (Maximum)		-29170 (Minimum) 0 (Nominal) 29170 (Maximum)

1	10.19				24.49			
		-1531 (Minimum)	0 (Nominal)	1531 (Maximum)		-29170 (Minimum)	0 (Nominal)	29170 (Maximum)
2	0.1200				-0.009766			
		-46.66 (Minimum)	0 (Nominal)	46.66 (Maximum)		-346.6 (Minimum)	0 (Nominal)	346.6 (Maximum)
3	-4.161				-0.3639			
		-353.3 (Minimum)	0 (Nominal)	353.3 (Maximum)		-11260 (Minimum)	0 (Nominal)	11260 (Maximum)
4	2.269				2.941			
		-353.3 (Minimum)	0 (Nominal)	353.3 (Maximum)		-11260 (Minimum)	0 (Nominal)	11260 (Maximum)
5	-0.2519				-0.01884			
		-27.22 (Minimum)	0 (Nominal)	27.22 (Maximum)		-264.6 (Minimum)	0 (Nominal)	264.6 (Maximum)
6	-1.653				0.9777			
		-135.8 (Minimum)	0 (Nominal)	135.8 (Maximum)		-4360 (Minimum)	0 (Nominal)	4360 (Maximum)
7	0.6767				0.3237			
		-135.8 (Minimum)	0 (Nominal)	135.8 (Maximum)		-4360 (Minimum)	0 (Nominal)	4360 (Maximum)
8	-0.04222				0.04117			
		-10.93 (Minimum)	0 (Nominal)	10.93 (Maximum)		-53.41 (Minimum)	0 (Nominal)	53.41 (Maximum)
9	0.1727				-0.9180			
		-35.67 (Minimum)	0 (Nominal)	35.67 (Maximum)		-426.1 (Minimum)	0 (Nominal)	426.1 (Maximum)
10	-0.01215				0.06274			
		-381.8 (Minimum)	0 (Nominal)	381.8 (Maximum)		-11200 (Minimum)	0 (Nominal)	11200 (Maximum)
11	-2.933				1.666			
		-232.6 (Minimum)	0 (Nominal)	232.6 (Maximum)		-7370 (Minimum)	0 (Nominal)	7370 (Maximum)
12	0.1683				-0.1596			
		-381.8 (Minimum)	0 (Nominal)	381.8 (Maximum)		-11200 (Minimum)	0 (Nominal)	11200 (Maximum)
13	0.5469				-0.7540			
		-35.67 (Minimum)	0 (Nominal)	35.67 (Maximum)		-426.1 (Minimum)	0 (Nominal)	426.1 (Maximum)
14	1.343				-0.3389			
		-232.6 (Minimum)	0 (Nominal)	232.6 (Maximum)		-7370 (Minimum)	0 (Nominal)	7370 (Maximum)
15	-0.01488				2.336			
		-102.1 (Minimum)	0 (Nominal)	102.1 (Maximum)		-8761 (Minimum)	0 (Nominal)	8761 (Maximum)
16	-0.2304				-1.509			
		-102.1 (Minimum)	0 (Nominal)	102.1 (Maximum)		-8761 (Minimum)	0 (Nominal)	8761 (Maximum)
17	-0.1579				0.01291			
		-7.007 (Minimum)	0 (Nominal)	7.007 (Maximum)		-87.19 (Minimum)	0 (Nominal)	87.19 (Maximum)
18	0.2067				-0.5140			
		-35.19 (Minimum)	0 (Nominal)	35.19 (Maximum)		-235.8 (Minimum)	0 (Nominal)	235.8 (Maximum)
19	0.09614				-0.08325			
		-152.0 (Minimum)	0 (Nominal)	152.0 (Maximum)		-5512 (Minimum)	0 (Nominal)	5512 (Maximum)
20	-0.7504				1.015			
		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)		-3672 (Minimum)	0 (Nominal)	3672 (Maximum)
21	0.1138				-0.1290			
		-152.0 (Minimum)	0 (Nominal)	152.0 (Maximum)		-5512 (Minimum)	0 (Nominal)	5512 (Maximum)
22	0.3292				-0.6386			

	-35.19 (Minimum)	0 (Nominal)	35.19 (Maximum)		-235.8 (Minimum)	0 (Nominal)	235.8 (Maximum)	
23	0.1383				0.03632			
	-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)		-3672 (Minimum)	0 (Nominal)	3672 (Maximum)	
24	-0.1861				1.420			
	-57.08 (Minimum)	0 (Nominal)	57.08 (Maximum)		-4340 (Minimum)	0 (Nominal)	4340 (Maximum)	
25	-0.005805				-0.5731			
	-57.08 (Minimum)	0 (Nominal)	57.08 (Maximum)		-4340 (Minimum)	0 (Nominal)	4340 (Maximum)	
26	-0.01546				-0.07972			
	-3.403 (Minimum)	0 (Nominal)	3.403 (Maximum)		-44.26 (Minimum)	0 (Nominal)	44.26 (Maximum)	
27	0.3387				0.4684			
	-71.11 (Minimum)	0 (Nominal)	71.11 (Maximum)		-267.4 (Minimum)	0 (Nominal)	267.4 (Maximum)	
28	-0.01110				-0.05457			
	-147.2 (Minimum)	0 (Nominal)	147.2 (Maximum)		-5686 (Minimum)	0 (Nominal)	5686 (Maximum)	
29	-1.128				0.9135			
	-97.14 (Minimum)	0 (Nominal)	97.14 (Maximum)		-2477 (Minimum)	0 (Nominal)	2477 (Maximum)	
30	0.04314				-0.05426			
	-147.2 (Minimum)	0 (Nominal)	147.2 (Maximum)		-5686 (Minimum)	0 (Nominal)	5686 (Maximum)	
31	0.8466				-0.3618			
	-71.11 (Minimum)	0 (Nominal)	71.11 (Maximum)		-267.4 (Minimum)	0 (Nominal)	267.4 (Maximum)	
32	0.4608				0.3517			
	-97.14 (Minimum)	0 (Nominal)	97.14 (Maximum)		-2477 (Minimum)	0 (Nominal)	2477 (Maximum)	
33	0.4539				4.021			
	-55.27 (Minimum)	0 (Nominal)	55.27 (Maximum)		-2429 (Minimum)	0 (Nominal)	2429 (Maximum)	
34	0.07626				-1.936			
	-55.27 (Minimum)	0 (Nominal)	55.27 (Maximum)		-2429 (Minimum)	0 (Nominal)	2429 (Maximum)	
35	-0.1547				-0.05334			
	-7.240 (Minimum)	0 (Nominal)	7.240 (Maximum)		-54.22 (Minimum)	0 (Nominal)	54.22 (Maximum)	
36	0.3013				-0.1129			
	-68.38 (Minimum)	0 (Nominal)	68.38 (Maximum)		-136.6 (Minimum)	0 (Nominal)	136.6 (Maximum)	
37	0.06581				-0.07947			
	-43.24 (Minimum)	0 (Nominal)	43.24 (Maximum)		-2835 (Minimum)	0 (Nominal)	2835 (Maximum)	
38	-0.5113				0.6889			
	-25.45 (Minimum)	0 (Nominal)	25.45 (Maximum)		-1242 (Minimum)	0 (Nominal)	1242 (Maximum)	
39	0.1728				-0.2104			
	-43.24 (Minimum)	0 (Nominal)	43.24 (Maximum)		-2835 (Minimum)	0 (Nominal)	2835 (Maximum)	
40	0.3544				-0.2524			
	-68.38 (Minimum)	0 (Nominal)	68.38 (Maximum)		-136.6 (Minimum)	0 (Nominal)	136.6 (Maximum)	
41	-0.1169				0.5297			
	-25.45 (Minimum)	0 (Nominal)	25.45 (Maximum)		-1242 (Minimum)	0 (Nominal)	1242 (Maximum)	
42	-0.1942				2.177			
	-39.01 (Minimum)	0 (Nominal)	39.01 (Maximum)		-1221 (Minimum)	0 (Nominal)	1221 (Maximum)	
43	-0.03649				-0.7091			
	-39.01	0	39.01		-1221	0	1221	

	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	
44	0.02520				-0.1002			
	-3.013 (Minimum)	0 (Nominal)	3.013 (Maximum)		-27.05 (Minimum)	0 (Nominal)	27.05 (Maximum)	
45	-0.3034				-0.8610			
	-10.63 (Minimum)	0 (Nominal)	10.63 (Maximum)		-155.2 (Minimum)	0 (Nominal)	155.2 (Maximum)	
46	0.04300				-0.1006			
	-106.0 (Minimum)	0 (Nominal)	106.0 (Maximum)		-3958 (Minimum)	0 (Nominal)	3958 (Maximum)	
47	0.2916				0.2090			
	-54.06 (Minimum)	0 (Nominal)	54.06 (Maximum)		-1952 (Minimum)	0 (Nominal)	1952 (Maximum)	
48	0.06045				-0.4858			
	-106.0 (Minimum)	0 (Nominal)	106.0 (Maximum)		-3958 (Minimum)	0 (Nominal)	3958 (Maximum)	
49	0.2894				-0.4226			
	-10.63 (Minimum)	0 (Nominal)	10.63 (Maximum)		-155.2 (Minimum)	0 (Nominal)	155.2 (Maximum)	
50	-0.3024				0.5052			
	-54.06 (Minimum)	0 (Nominal)	54.06 (Maximum)		-1952 (Minimum)	0 (Nominal)	1952 (Maximum)	
51	0.007545				0.3641			
	-29.44 (Minimum)	0 (Nominal)	29.44 (Maximum)		-1726 (Minimum)	0 (Nominal)	1726 (Maximum)	
52	0.03659				0.09955			
	-29.44 (Minimum)	0 (Nominal)	29.44 (Maximum)		-1726 (Minimum)	0 (Nominal)	1726 (Maximum)	
53	0.03907				0.02836			
	-4.687 (Minimum)	0 (Nominal)	4.687 (Maximum)		-24.67 (Minimum)	0 (Nominal)	24.67 (Maximum)	
54	0.05239				-0.9942			
	-9.909 (Minimum)	0 (Nominal)	9.909 (Maximum)		-79.44 (Minimum)	0 (Nominal)	79.44 (Maximum)	
55	0.04056				-0.1230			
	-14.78 (Minimum)	0 (Nominal)	14.78 (Maximum)		-1975 (Minimum)	0 (Nominal)	1975 (Maximum)	
56	-0.3319				0.4587			
	-15.08 (Minimum)	0 (Nominal)	15.08 (Maximum)		-982.7 (Minimum)	0 (Nominal)	982.7 (Maximum)	
57	0.08452				-0.2100			
	-14.78 (Minimum)	0 (Nominal)	14.78 (Maximum)		-1975 (Minimum)	0 (Nominal)	1975 (Maximum)	
58	0.1770				-0.4695			
	-9.909 (Minimum)	0 (Nominal)	9.909 (Maximum)		-79.44 (Minimum)	0 (Nominal)	79.44 (Maximum)	
59	-0.2805				0.5564			
	-15.08 (Minimum)	0 (Nominal)	15.08 (Maximum)		-982.7 (Minimum)	0 (Nominal)	982.7 (Maximum)	
60	-0.1693				0.3177			
	-12.77 (Minimum)	0 (Nominal)	12.77 (Maximum)		-864.8 (Minimum)	0 (Nominal)	864.8 (Maximum)	
61	-0.1276				0.2410			
	-12.77 (Minimum)	0 (Nominal)	12.77 (Maximum)		-864.8 (Minimum)	0 (Nominal)	864.8 (Maximum)	
62	0.08576				-0.08274			
	-2.609 (Minimum)	0 (Nominal)	2.609 (Maximum)		-12.89 (Minimum)	0 (Nominal)	12.89 (Maximum)	
63	-0.1626				-0.2981			
	-10.22 (Minimum)	0 (Nominal)	10.22 (Maximum)		-70.79 (Minimum)	0 (Nominal)	70.79 (Maximum)	
64	-0.2403				-0.1666			
	-39.94 (Minimum)	0 (Nominal)	39.94 (Maximum)		-1426 (Minimum)	0 (Nominal)	1426 (Maximum)	

65	0.2473				-0.04198				
		-21.93 (Minimum)	0 (Nominal)	21.93 (Maximum)		-539.6 (Minimum)	0 (Nominal)	539.6 (Maximum)	
66	0.07368				-0.005737				
		-39.94 (Minimum)	0 (Nominal)	39.94 (Maximum)		-1426 (Minimum)	0 (Nominal)	1426 (Maximum)	
67	0.3326				0.1223				
		-10.22 (Minimum)	0 (Nominal)	10.22 (Maximum)		-70.79 (Minimum)	0 (Nominal)	70.79 (Maximum)	
68	-0.5446				0.3058				
		-21.93 (Minimum)	0 (Nominal)	21.93 (Maximum)		-539.6 (Minimum)	0 (Nominal)	539.6 (Maximum)	
69	-0.1382				1.924				
		-11.75 (Minimum)	0 (Nominal)	11.75 (Maximum)		-742.5 (Minimum)	0 (Nominal)	742.5 (Maximum)	
70	-0.1599				-0.7292				
		-11.75 (Minimum)	0 (Nominal)	11.75 (Maximum)		-742.5 (Minimum)	0 (Nominal)	742.5 (Maximum)	
71	0.1287				0.06215				
		-3.120 (Minimum)	0 (Nominal)	3.120 (Maximum)		-9.918 (Minimum)	0 (Nominal)	9.918 (Maximum)	
72	0.03691				-0.4117				
		-8.036 (Minimum)	0 (Nominal)	8.036 (Maximum)		-37.85 (Minimum)	0 (Nominal)	37.85 (Maximum)	
73	0.04194				-0.1697				
		-5.764 (Minimum)	0 (Nominal)	5.764 (Maximum)		-704.3 (Minimum)	0 (Nominal)	704.3 (Maximum)	
74	-0.1831				0.1960				
		-6.497 (Minimum)	0 (Nominal)	6.497 (Maximum)		-271.0 (Minimum)	0 (Nominal)	271.0 (Maximum)	
75	0.05772				-0.04150				
		-5.764 (Minimum)	0 (Nominal)	5.764 (Maximum)		-704.3 (Minimum)	0 (Nominal)	704.3 (Maximum)	
76	0.1402				-0.1396				
		-8.036 (Minimum)	0 (Nominal)	8.036 (Maximum)		-37.85 (Minimum)	0 (Nominal)	37.85 (Maximum)	
77	-0.2115				0.4394				
		-6.497 (Minimum)	0 (Nominal)	6.497 (Maximum)		-271.0 (Minimum)	0 (Nominal)	271.0 (Maximum)	
78	-0.1311				1.013				
		-4.645 (Minimum)	0 (Nominal)	4.645 (Maximum)		-370.6 (Minimum)	0 (Nominal)	370.6 (Maximum)	
79	-0.06975				-0.2236				
		-4.645 (Minimum)	0 (Nominal)	4.645 (Maximum)		-370.6 (Minimum)	0 (Nominal)	370.6 (Maximum)	
80	0.08940				-0.1473				
		-1.824 (Minimum)	0 (Nominal)	1.824 (Maximum)		-5.031 (Minimum)	0 (Nominal)	5.031 (Maximum)	
81	-0.1009				-0.7759				
		-9.472 (Minimum)	0 (Nominal)	9.472 (Maximum)		-45.88 (Minimum)	0 (Nominal)	45.88 (Maximum)	
82	-0.1082				-0.1352				
		-23.27 (Minimum)	0 (Nominal)	23.27 (Maximum)		-792.9 (Minimum)	0 (Nominal)	792.9 (Maximum)	
83	0.5169				-0.9628				
		-14.34 (Minimum)	0 (Nominal)	14.34 (Maximum)		-306.8 (Minimum)	0 (Nominal)	306.8 (Maximum)	
84	-0.02193				0.1194				
		-23.27 (Minimum)	0 (Nominal)	23.27 (Maximum)		-792.9 (Minimum)	0 (Nominal)	792.9 (Maximum)	
85	0.05178				-0.05931				
		-9.472 (Minimum)	0 (Nominal)	9.472 (Maximum)		-45.88 (Minimum)	0 (Nominal)	45.88 (Maximum)	
86	0.02210				0.4675				

	-14.34 (Minimum)	0 (Nominal)	14.34 (Maximum)	-306.8 (Minimum)	0 (Nominal)	306.8 (Maximum)
87	0.07541			-1.367		
	-10.47 (Minimum)	0 (Nominal)	10.47 (Maximum)	-402.6 (Minimum)	0 (Nominal)	402.6 (Maximum)
88	0.003239			0.8895		
	-10.47 (Minimum)	0 (Nominal)	10.47 (Maximum)	-402.6 (Minimum)	0 (Nominal)	402.6 (Maximum)
89	0.02838			0.3034		
	-3.805 (Minimum)	0 (Nominal)	3.805 (Maximum)	-9.616 (Minimum)	0 (Nominal)	9.616 (Maximum)
90	0.06008			-0.6125		
	-8.259 (Minimum)	0 (Nominal)	8.259 (Maximum)	-20.40 (Minimum)	0 (Nominal)	20.40 (Maximum)
91	0.05876			-0.1329		
	-4.266 (Minimum)	0 (Nominal)	4.266 (Maximum)	-395.3 (Minimum)	0 (Nominal)	395.3 (Maximum)
92	-0.07117			-0.04096		
	-5.626 (Minimum)	0 (Nominal)	5.626 (Maximum)	-155.9 (Minimum)	0 (Nominal)	155.9 (Maximum)
93	0.1681			-0.1133		
	-4.266 (Minimum)	0 (Nominal)	4.266 (Maximum)	-395.3 (Minimum)	0 (Nominal)	395.3 (Maximum)
94	0.1242			-0.4075		
	-8.259 (Minimum)	0 (Nominal)	8.259 (Maximum)	-20.40 (Minimum)	0 (Nominal)	20.40 (Maximum)
95	-0.2545			0.5435		
	-5.626 (Minimum)	0 (Nominal)	5.626 (Maximum)	-155.9 (Minimum)	0 (Nominal)	155.9 (Maximum)
96	-0.2199			-0.6305		
	-4.646 (Minimum)	0 (Nominal)	4.646 (Maximum)	-202.5 (Minimum)	0 (Nominal)	202.5 (Maximum)
97	-0.05712			0.4593		
	-4.646 (Minimum)	0 (Nominal)	4.646 (Maximum)	-202.5 (Minimum)	0 (Nominal)	202.5 (Maximum)
98	0.04692			-0.05555		
	-1.764 (Minimum)	0 (Nominal)	1.764 (Maximum)	-4.847 (Minimum)	0 (Nominal)	4.847 (Maximum)
99	-0.3180			-0.4892		
	-9.164 (Minimum)	0 (Nominal)	9.164 (Maximum)	-32.30 (Minimum)	0 (Nominal)	32.30 (Maximum)
100	0.1631			-0.2477		
	-14.50 (Minimum)	0 (Nominal)	14.50 (Maximum)	-277.6 (Minimum)	0 (Nominal)	277.6 (Maximum)
101	0.1847			-0.1473		
	-15.66 (Minimum)	0 (Nominal)	15.66 (Maximum)	-139.0 (Minimum)	0 (Nominal)	139.0 (Maximum)
102	0.08262			0.09483		
	-14.50 (Minimum)	0 (Nominal)	14.50 (Maximum)	-277.6 (Minimum)	0 (Nominal)	277.6 (Maximum)
103	0.4727			0.2861		
	-9.164 (Minimum)	0 (Nominal)	9.164 (Maximum)	-32.30 (Minimum)	0 (Nominal)	32.30 (Maximum)
104	0.01083			0.08961		
	-15.66 (Minimum)	0 (Nominal)	15.66 (Maximum)	-139.0 (Minimum)	0 (Nominal)	139.0 (Maximum)
105	0.1126			-0.4229		
	-10.91 (Minimum)	0 (Nominal)	10.91 (Maximum)	-135.1 (Minimum)	0 (Nominal)	135.1 (Maximum)
106	-0.1191			0.1263		
	-10.91 (Minimum)	0 (Nominal)	10.91 (Maximum)	-135.1 (Minimum)	0 (Nominal)	135.1 (Maximum)
107	-0.08582			0.1774		
	-4.268	0	4.268	-12.17	0	12.17

	(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)
108	-0.02287			-0.7440		
	-4.602 (Minimum)	0 (Nominal)	4.602 (Maximum)	-19.30 (Minimum)	0 (Nominal)	19.30 (Maximum)
109	0.03154			-0.1913		
	-6.122 (Minimum)	0 (Nominal)	6.122 (Maximum)	-145.7 (Minimum)	0 (Nominal)	145.7 (Maximum)
110	-0.07768			0.1307		
	-7.621 (Minimum)	0 (Nominal)	7.621 (Maximum)	-64.78 (Minimum)	0 (Nominal)	64.78 (Maximum)
111	0.1085			-0.07482		
	-6.122 (Minimum)	0 (Nominal)	6.122 (Maximum)	-145.7 (Minimum)	0 (Nominal)	145.7 (Maximum)
112	0.2269			-0.5496		
	-4.602 (Minimum)	0 (Nominal)	4.602 (Maximum)	-19.30 (Minimum)	0 (Nominal)	19.30 (Maximum)
113	-0.2676			0.3585		
	-7.621 (Minimum)	0 (Nominal)	7.621 (Maximum)	-64.78 (Minimum)	0 (Nominal)	64.78 (Maximum)
114	-0.1074			0.07611		
	-6.006 (Minimum)	0 (Nominal)	6.006 (Maximum)	-64.67 (Minimum)	0 (Nominal)	64.67 (Maximum)
115	-0.04919			0.1731		
	-6.006 (Minimum)	0 (Nominal)	6.006 (Maximum)	-64.67 (Minimum)	0 (Nominal)	64.67 (Maximum)
116	0.1090			-0.1079		
	-2.022 (Minimum)	0 (Nominal)	2.022 (Maximum)	-6.709 (Minimum)	0 (Nominal)	6.709 (Maximum)

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3-D Array Induction Tool - ZAIT-C Master Calibration

Electronics Calibration Check - Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude MM/M	Nominal	Value	Thru Cal Phase DEG	Nominal
0	Master	1.473		1.456	2.501		0
1	Master	1.488		1.456	3.776		0
2	Master	1.441		1.456	2.915		0
3	Master	3.391		3.352	-0.9908		0
4	Master	3.426		3.352	0.2952		0
5	Master	3.319		3.352	-0.5639		0
6	Master	2.716		2.680	-2.616		0
7	Master	2.743		2.680	-1.337		0
8	Master	2.658		2.680	-2.222		0
9	Master	1.889		1.956	3.916		0
10	Master	1.887		1.956	2.558		0
11	Master	1.867		1.956	2.736		0
12	Master	3.532		3.537	2.553		0
13	Master	3.568		3.537	3.797		0
14	Master	3.456		3.537	2.958		0
15	Master	3.036		3.100	3.937		0
16	Master	3.033		3.100	2.593		0
17	Master	3.001		3.100	2.774		0
18	Master	0.9342		0.9359	2.447		0
19	Master	0.9445		0.9359	3.716		0
20	Master	0.9149		0.9359	2.886		0

21	Master	4.030	4.081	1.294		0
22	Master	4.025	4.081	-0.05280		0
23	Master	3.983	4.081	0.1241		0
24	Master	1.364	1.362	-0.9613		0
25	Master	1.379	1.362	0.2775		0
26	Master	1.336	1.362	-0.5624		0
27	Master	4.030	4.081	1.289		0
28	Master	4.025	4.081	-0.05447		0
29	Master	3.983	4.081	0.1240		0
30	Master	1.364	1.362	-0.9981		0
31	Master	1.379	1.362	0.2827		0
32	Master	1.336	1.362	-0.5556		0
33	Master	1.167	1.220	1.123		0
34	Master	1.168	1.220	-0.2249		0
35	Master	1.156	1.220	-0.05682		0
36	Master	1.615	1.635	-2.539		0
37	Master	1.633	1.635	-1.299		0
38	Master	1.582	1.635	-2.138		0
39	Master	1.403	1.464	1.103		0
40	Master	1.403	1.464	-0.2412		0
41	Master	1.389	1.464	-0.06242		0
42	Master	2.334	2.353	-2.621		0
43	Master	2.359	2.353	-1.341		0
44	Master	2.285	2.353	-2.188		0
		60.00 % (Minimum) (Nominal)	140.0 % (Maximum)	Nom -180.0 (Minimum) (Nominal)		Nom + 180.0 (Maximum)

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3-D Array Induction Tool - ZAIT-C Master Calibration

Electronics Calibration Check - Auxilliary

Phase	Array Induction SPA Plus V	Value	Phase	Array Induction SPA Zero V	Value
Master		0.8423	Master		-0.001014
	0.7570 (Minimum) 0.8360 (Nominal) 0.9150 (Maximum)			-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value
Master		0.9881	Master		-0.001336
	0.8800 (Minimum) 0.9798 (Nominal) 1.076 (Maximum)			-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Phase	Array Induction CalSig Plus V	Value	Phase	Array Induction CalSig Zero V	Value
Master		5.013	Master		-0.01065
	4.500 (Minimum) 5.000 (Nominal) 5.500 (Maximum)			-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Phase	Array Induction Volt Plus V	Value	Phase	Array Induction Volt Zero V	Value
Master		5.013	Master		-0.01065
	4.500 (Minimum) 5.000 (Nominal) 5.500 (Maximum)			-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

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3-D Array Induction Tool - ZAIT-C Master Calibration

Sonde Error Correction

Idx	Value	R Sonde Error Correction MM/M	Value	X Sonde Error Correction MM/M

0	-569.9	-2099 (Minimum)	236.6 (Nominal)	2572 (Maximum)	5747	-33440 (Minimum)	0 (Nominal)	33440 (Maximum)
1	668.2	-2238 (Minimum)	517.4 (Nominal)	3273 (Maximum)	-2469	-33440 (Minimum)	0 (Nominal)	33440 (Maximum)
2	-1316	-2206 (Minimum)	-1373 (Nominal)	-539.4 (Maximum)	1496	-6526 (Minimum)	0 (Nominal)	6526 (Maximum)
3	-178.6	-1275 (Minimum)	-115.5 (Nominal)	1044 (Maximum)	1080	-10020 (Minimum)	0 (Nominal)	10020 (Maximum)
4	199.8	-754.9 (Minimum)	96.29 (Nominal)	947.4 (Maximum)	-938.9	-10020 (Minimum)	0 (Nominal)	10020 (Maximum)
5	217.7	-277.9 (Minimum)	130.9 (Nominal)	539.8 (Maximum)	-44.74	-2370 (Minimum)	0 (Nominal)	2370 (Maximum)
6	-42.60	-1461 (Minimum)	-175.6 (Nominal)	1110 (Maximum)	-166.6	-7371 (Minimum)	0 (Nominal)	7371 (Maximum)
7	76.68	-918.1 (Minimum)	120.1 (Nominal)	1158 (Maximum)	-281.4	-7371 (Minimum)	0 (Nominal)	7371 (Maximum)
8	-0.9082	-732.6 (Minimum)	99.33 (Nominal)	931.3 (Maximum)	197.4	-1170 (Minimum)	0 (Nominal)	1170 (Maximum)
9	-667.6	-2644 (Minimum)	-474.8 (Nominal)	1694 (Maximum)	1015	-2428 (Minimum)	0 (Nominal)	2428 (Maximum)
10	-114.0	-476.8 (Minimum)	0.8582 (Nominal)	478.5 (Maximum)	3235	-13010 (Minimum)	0 (Nominal)	13010 (Maximum)
11	-108.7	-565.3 (Minimum)	22.03 (Nominal)	609.4 (Maximum)	1990	-15560 (Minimum)	0 (Nominal)	15560 (Maximum)
12	44.91	-467.6 (Minimum)	1.810 (Nominal)	471.2 (Maximum)	-1147	-13010 (Minimum)	0 (Nominal)	13010 (Maximum)
13	-662.8	-2739 (Minimum)	-470.3 (Nominal)	1799 (Maximum)	1021	-2428 (Minimum)	0 (Nominal)	2428 (Maximum)
14	131.9	-443.5 (Minimum)	23.85 (Nominal)	491.3 (Maximum)	613.8	-5822 (Minimum)	0 (Nominal)	5822 (Maximum)
15	0.5598	-385.0 (Minimum)	-36.22 (Nominal)	312.5 (Maximum)	619.2	-15560 (Minimum)	0 (Nominal)	15560 (Maximum)
16	18.03	-493.1 (Minimum)	64.30 (Nominal)	621.8 (Maximum)	-558.9	-5822 (Minimum)	0 (Nominal)	5822 (Maximum)
17	55.16	-489.0 (Minimum)	-27.52 (Nominal)	434.0 (Maximum)	-11.95	-1206 (Minimum)	0 (Nominal)	1206 (Maximum)
18	-402.6	-1885 (Minimum)	-334.0 (Nominal)	1217 (Maximum)	144.3	-1034 (Minimum)	0 (Nominal)	1034 (Maximum)
19	-48.37	-302.1 (Minimum)	-17.24 (Nominal)	267.6 (Maximum)	1584	-10370 (Minimum)	0 (Nominal)	10370 (Maximum)
20	-28.47	-557.5 (Minimum)	63.39 (Nominal)	684.3 (Maximum)	992.3	-7714 (Minimum)	0 (Nominal)	7714 (Maximum)
21	24.48				-560.5			

		-220.3 (Minimum)	10.74 (Nominal)	241.7 (Maximum)		-10370 (Minimum)	0 (Nominal)	10370 (Maximum)
22	-392.5				100.7			
		-1981 (Minimum)	-322.6 (Nominal)	1336 (Maximum)		-1034 (Minimum)	0 (Nominal)	1034 (Maximum)
23	35.87				320.2			
		-437.5 (Minimum)	-7.943 (Nominal)	421.6 (Maximum)		-2924 (Minimum)	0 (Nominal)	2924 (Maximum)
24	-13.00				284.3			
		-392.6 (Minimum)	-42.48 (Nominal)	307.6 (Maximum)		-7714 (Minimum)	0 (Nominal)	7714 (Maximum)
25	12.29				-297.1			
		-411.0 (Minimum)	63.57 (Nominal)	538.1 (Maximum)		-2924 (Minimum)	0 (Nominal)	2924 (Maximum)
26	16.94				-32.21			
		-512.6 (Minimum)	-69.65 (Nominal)	373.3 (Maximum)		-603.0 (Minimum)	0 (Nominal)	603.0 (Maximum)
27	-606.1				-174.7			
		-1239 (Minimum)	-278.5 (Nominal)	681.8 (Maximum)		-3871 (Minimum)	0 (Nominal)	3871 (Maximum)
28	-12.15				562.9			
		-211.4 (Minimum)	30.50 (Nominal)	272.4 (Maximum)		-7719 (Minimum)	0 (Nominal)	7719 (Maximum)
29	-22.48				203.0			
		-108.2 (Minimum)	-1.844 (Nominal)	104.5 (Maximum)		-4039 (Minimum)	0 (Nominal)	4039 (Maximum)
30	25.85				-593.0			
		-196.1 (Minimum)	-11.21 (Nominal)	173.7 (Maximum)		-7719 (Minimum)	0 (Nominal)	7719 (Maximum)
31	-675.3				-172.7			
		-1360 (Minimum)	-303.8 (Nominal)	752.4 (Maximum)		-3871 (Minimum)	0 (Nominal)	3871 (Maximum)
32	61.35				-432.6			
		-127.4 (Minimum)	22.30 (Nominal)	172.1 (Maximum)		-2559 (Minimum)	0 (Nominal)	2559 (Maximum)
33	37.28				-31.44			
		-142.6 (Minimum)	15.50 (Nominal)	173.6 (Maximum)		-4039 (Minimum)	0 (Nominal)	4039 (Maximum)
34	2.983				-873.5			
		-110.1 (Minimum)	1.493 (Nominal)	113.0 (Maximum)		-2559 (Minimum)	0 (Nominal)	2559 (Maximum)
35	133.0				-98.89			
		-220.8 (Minimum)	91.19 (Nominal)	403.2 (Maximum)		-603.7 (Minimum)	0 (Nominal)	603.7 (Maximum)
36	-620.2	EXCEEDS LIMIT			9.242			
		-587.6 (Minimum)	-349.5 (Nominal)	-111.3 (Maximum)		-2342 (Minimum)	0 (Nominal)	2342 (Maximum)
37	-3.264				277.4			
		-121.7 (Minimum)	18.47 (Nominal)	158.6 (Maximum)		-6297 (Minimum)	0 (Nominal)	6297 (Maximum)
38	1.782				100.1			
		-40.94 (Minimum)	6.955 (Nominal)	54.85 (Maximum)		-2285 (Minimum)	0 (Nominal)	2285 (Maximum)
39	15.25				-298.5			
		-134.2 (Minimum)	-8.160 (Nominal)	117.9 (Maximum)		-6297 (Minimum)	0 (Nominal)	6297 (Maximum)
40	-689.5				32.52			
		-694.0 (Minimum)	-374.2 (Nominal)	-54.38 (Maximum)		-2342 (Minimum)	0 (Nominal)	2342 (Maximum)
41	15.96				-208.4			
		-27.80 (Minimum)	9.373 (Nominal)	46.55 (Maximum)		-1266 (Minimum)	0 (Nominal)	1266 (Maximum)
42	31.29				-17.15			
		-84.39	7.147	98.68		-2285	0	2285

	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)
43	-4.741			-433.2			
	-104.2 (Minimum)	-1.655 (Nominal)	100.8 (Maximum)		-1266 (Minimum)	0 (Nominal)	1266 (Maximum)
44	58.73			2.465			
	-3.807 (Minimum)	50.63 (Nominal)	105.1 (Maximum)		-298.0 (Minimum)	0 (Nominal)	298.0 (Maximum)
45	-21.36			12.45			
	-41.70 (Minimum)	-4.360 (Nominal)	32.98 (Maximum)		-388.0 (Minimum)	0 (Nominal)	388.0 (Maximum)
46	115.3			-4419			
	-223.5 (Minimum)	-22.53 (Nominal)	178.4 (Maximum)		-5325 (Minimum)	0 (Nominal)	5325 (Maximum)
47	-20.98			450.0			
	-85.97 (Minimum)	-13.08 (Nominal)	59.81 (Maximum)		-3174 (Minimum)	0 (Nominal)	3174 (Maximum)
48	-108.6			5007			
	-192.8 (Minimum)	16.32 (Nominal)	225.4 (Maximum)		-5325 (Minimum)	0 (Nominal)	5325 (Maximum)
49	-16.84			3.113			
	-65.87 (Minimum)	-3.477 (Nominal)	58.92 (Maximum)		-388.0 (Minimum)	0 (Nominal)	388.0 (Maximum)
50	19.23			22.84			
	-80.65 (Minimum)	3.230 (Nominal)	87.11 (Maximum)		-2018 (Minimum)	0 (Nominal)	2018 (Maximum)
51	-15.81			717.0			
	-72.90 (Minimum)	6.234 (Nominal)	85.37 (Maximum)		-3174 (Minimum)	0 (Nominal)	3174 (Maximum)
52	8.480			-288.5			
	-26.11 (Minimum)	4.024 (Nominal)	34.16 (Maximum)		-2018 (Minimum)	0 (Nominal)	2018 (Maximum)
53	60.17			-14.15			
	-104.3 (Minimum)	43.95 (Nominal)	192.2 (Maximum)		-322.0 (Minimum)	0 (Nominal)	322.0 (Maximum)
54	-63.76	EXCEEDS LIMIT		-31.67			
	-62.23 (Minimum)	-15.43 (Nominal)	31.37 (Maximum)		-307.7 (Minimum)	0 (Nominal)	307.7 (Maximum)
55	9.889			-2205			
	-70.50 (Minimum)	-8.534 (Nominal)	53.44 (Maximum)		-2667 (Minimum)	0 (Nominal)	2667 (Maximum)
56	-3.680			225.7			
	-21.07 (Minimum)	-5.422 (Nominal)	10.22 (Maximum)		-1859 (Minimum)	0 (Nominal)	1859 (Maximum)
57	-9.960			2502			
	-74.32 (Minimum)	5.049 (Nominal)	84.42 (Maximum)		-2667 (Minimum)	0 (Nominal)	2667 (Maximum)
58	-60.71	EXCEEDS LIMIT		-33.44			
	-54.79 (Minimum)	-13.05 (Nominal)	28.69 (Maximum)		-307.7 (Minimum)	0 (Nominal)	307.7 (Maximum)
59	4.170			15.81			
	-16.74 (Minimum)	3.985 (Nominal)	24.71 (Maximum)		-1020 (Minimum)	0 (Nominal)	1020 (Maximum)
60	-2.031			354.0			
	-24.06 (Minimum)	1.042 (Nominal)	26.15 (Maximum)		-1859 (Minimum)	0 (Nominal)	1859 (Maximum)
61	2.065			-141.4			
	-15.54 (Minimum)	2.415 (Nominal)	20.37 (Maximum)		-1020 (Minimum)	0 (Nominal)	1020 (Maximum)
62	32.95			7.243			
	6.977 (Minimum)	28.73 (Nominal)	50.48 (Maximum)		-161.0 (Minimum)	0 (Nominal)	161.0 (Maximum)
63	-28.80	EXCEEDS LIMIT		201.4			
	-17.66 (Minimum)	-3.330 (Nominal)	11.00 (Maximum)		-239.1 (Minimum)	0 (Nominal)	239.1 (Maximum)

64	-31.19	-71.57 (Minimum)	0.8541 (Nominal)	73.28 (Maximum)	1490	-1954 (Minimum)	0 (Nominal)	1954 (Maximum)
65	-5.482	-28.89 (Minimum)	-5.682 (Nominal)	17.53 (Maximum)	82.23	-636.9 (Minimum)	0 (Nominal)	636.9 (Maximum)
66	37.25	-97.94 (Minimum)	-3.165 (Nominal)	91.61 (Maximum)	-1510	-1954 (Minimum)	0 (Nominal)	1954 (Maximum)
67	-22.81	EXCEEDS LIMIT			202.5			
		-17.64 (Minimum)	-3.126 (Nominal)	11.38 (Maximum)		-239.1 (Minimum)	0 (Nominal)	239.1 (Maximum)
68	5.999	-29.05 (Minimum)	4.277 (Nominal)	37.60 (Maximum)	26.55	-804.4 (Minimum)	0 (Nominal)	804.4 (Maximum)
69	-3.024	-14.38 (Minimum)	-0.7244 (Nominal)	12.93 (Maximum)	173.0	-636.9 (Minimum)	0 (Nominal)	636.9 (Maximum)
70	2.375	-27.59 (Minimum)	3.086 (Nominal)	33.76 (Maximum)	-37.45	-804.4 (Minimum)	0 (Nominal)	804.4 (Maximum)
71	26.87	-41.48 (Minimum)	16.77 (Nominal)	75.02 (Maximum)	36.41	-130.0 (Minimum)	0 (Nominal)	130.0 (Maximum)
72	-36.75	EXCEEDS LIMIT			24.90			
		-35.46 (Minimum)	-5.983 (Nominal)	23.50 (Maximum)		-60.00 (Minimum)	0 (Nominal)	60.00 (Maximum)
73	-5.449	-30.52 (Minimum)	1.110 (Nominal)	32.74 (Maximum)	738.3	-1679 (Minimum)	0 (Nominal)	1679 (Maximum)
74	-1.005	-8.414 (Minimum)	-1.815 (Nominal)	4.785 (Maximum)	41.22	-310.6 (Minimum)	0 (Nominal)	310.6 (Maximum)
75	6.186	-38.94 (Minimum)	-1.813 (Nominal)	35.31 (Maximum)	-748.3	-1679 (Minimum)	0 (Nominal)	1679 (Maximum)
76	-33.40	-35.80 (Minimum)	-5.152 (Nominal)	25.50 (Maximum)	24.67	-60.00 (Minimum)	0 (Nominal)	60.00 (Maximum)
77	1.521	-9.712 (Minimum)	1.786 (Nominal)	13.28 (Maximum)	15.28	-444.0 (Minimum)	0 (Nominal)	444.0 (Maximum)
78	1.239	-4.363 (Minimum)	0.9753 (Nominal)	6.314 (Maximum)	82.95	-310.6 (Minimum)	0 (Nominal)	310.6 (Maximum)
79	1.577	-11.04 (Minimum)	2.278 (Nominal)	15.60 (Maximum)	-18.99	-444.0 (Minimum)	0 (Nominal)	444.0 (Maximum)
80	19.53	-7.335 (Minimum)	12.41 (Nominal)	32.16 (Maximum)	3.451	-65.00 (Minimum)	0 (Nominal)	65.00 (Maximum)
81	-55.28	-60.82 (Minimum)	-12.70 (Nominal)	35.42 (Maximum)	215.2	-416.2 (Minimum)	0 (Nominal)	416.2 (Maximum)
82	-2.148	-40.62 (Minimum)	0.3400 (Nominal)	41.30 (Maximum)	10.08	-1038 (Minimum)	0 (Nominal)	1038 (Maximum)
83	-1.628	-19.64 (Minimum)	-3.814 (Nominal)	12.01 (Maximum)	67.59	-299.9 (Minimum)	0 (Nominal)	299.9 (Maximum)
84	5.716	-40.22 (Minimum)	-0.1494 (Nominal)	39.92 (Maximum)	-104.0	-1038 (Minimum)	0 (Nominal)	1038 (Maximum)
85	-50.09				227.0			

		-59.45 (Minimum)	-12.14 (Nominal)	35.17 (Maximum)		-416.2 (Minimum)	0 (Nominal)	416.2 (Maximum)
86	-1.188				11.93			
		-12.51 (Minimum)	0.9037 (Nominal)	14.32 (Maximum)		-220.9 (Minimum)	0 (Nominal)	220.9 (Maximum)
87	-1.422				67.31			
		-16.35 (Minimum)	-1.643 (Nominal)	13.06 (Maximum)		-299.9 (Minimum)	0 (Nominal)	299.9 (Maximum)
88	0.3932				8.681			
		-10.28 (Minimum)	-0.3858 (Nominal)	9.509 (Maximum)		-220.9 (Minimum)	0 (Nominal)	220.9 (Maximum)
89	10.80				112.4			
		-20.83 (Minimum)	4.732 (Nominal)	30.29 (Maximum)		-276.9 (Minimum)	0 (Nominal)	276.9 (Maximum)
90	-55.32	EXCEEDS LIMIT			41.18			
		-39.23 (Minimum)	-13.30 (Nominal)	12.62 (Maximum)		-113.5 (Minimum)	0 (Nominal)	113.5 (Maximum)
91	-0.8870				-3.812			
		-20.63 (Minimum)	-0.6563 (Nominal)	19.32 (Maximum)		-555.6 (Minimum)	0 (Nominal)	555.6 (Maximum)
92	-1.117				36.64			
		-9.279 (Minimum)	-2.329 (Nominal)	4.622 (Maximum)		-148.9 (Minimum)	0 (Nominal)	148.9 (Maximum)
93	1.977				-41.61			
		-15.75 (Minimum)	0.9947 (Nominal)	17.74 (Maximum)		-555.6 (Minimum)	0 (Nominal)	555.6 (Maximum)
94	-52.56	EXCEEDS LIMIT			48.78			
		-39.44 (Minimum)	-12.79 (Nominal)	13.85 (Maximum)		-113.5 (Minimum)	0 (Nominal)	113.5 (Maximum)
95	-0.6297				6.599			
		-6.664 (Minimum)	0.7110 (Nominal)	8.086 (Maximum)		-174.4 (Minimum)	0 (Nominal)	174.4 (Maximum)
96	0.6486				29.41			
		-5.276 (Minimum)	0.07397 (Nominal)	5.424 (Maximum)		-148.9 (Minimum)	0 (Nominal)	148.9 (Maximum)
97	0.7669				5.074			
		-4.240 (Minimum)	0.3828 (Nominal)	5.005 (Maximum)		-174.4 (Minimum)	0 (Nominal)	174.4 (Maximum)
98	14.78				-1.164			
		-23.35 (Minimum)	6.358 (Nominal)	36.06 (Maximum)		-60.00 (Minimum)	0 (Nominal)	60.00 (Maximum)
99	-69.86				9.439			
		-129.0 (Minimum)	-29.34 (Nominal)	70.29 (Maximum)		-73.74 (Minimum)	0 (Nominal)	73.74 (Maximum)
100	-2.869				54.56			
		-55.69 (Minimum)	4.247 (Nominal)	64.19 (Maximum)		-1637 (Minimum)	0 (Nominal)	1637 (Maximum)
101	1.455				-9.553			
		-21.74 (Minimum)	-2.287 (Nominal)	17.17 (Maximum)		-216.5 (Minimum)	0 (Nominal)	216.5 (Maximum)
102	4.927				-65.39			
		-108.7 (Minimum)	-5.613 (Nominal)	97.49 (Maximum)		-1637 (Minimum)	0 (Nominal)	1637 (Maximum)
103	-65.31				14.08			
		-128.4 (Minimum)	-28.99 (Nominal)	70.45 (Maximum)		-73.74 (Minimum)	0 (Nominal)	73.74 (Maximum)
104	-3.367				-6.343			
		-12.55 (Minimum)	0.3191 (Nominal)	13.19 (Maximum)		-133.0 (Minimum)	0 (Nominal)	133.0 (Maximum)
105	3.165				-40.22			
		-11.99 (Minimum)	1.492 (Nominal)	14.97 (Maximum)		-216.5 (Minimum)	0 (Nominal)	216.5 (Maximum)
106	0.7198				-52.92			
		-14.36	-0.6031	13.16		-133.0	0	133.0

		(Minimum)		(Nominal)	(Maximum)			(Minimum)		(Nominal)	(Maximum)
107	-8.678						-7.869				
		-22.34 (Minimum)		-3.168 (Nominal)	16.00 (Maximum)			-60.00 (Minimum)		0 (Nominal)	60.00 (Maximum)
108	-69.18		EXCEEDS LIMIT				98.80				EXCEEDS LIMIT
		-53.98 (Minimum)		-38.40 (Nominal)	-22.83 (Maximum)			-81.78 (Minimum)		0 (Nominal)	81.78 (Maximum)
109	-1.313						28.63				
		-15.20 (Minimum)		2.022 (Nominal)	19.25 (Maximum)			-829.7 (Minimum)		0 (Nominal)	829.7 (Maximum)
110	-0.2046						-6.098				
		-7.302 (Minimum)		-1.523 (Nominal)	4.255 (Maximum)			-99.27 (Minimum)		0 (Nominal)	99.27 (Maximum)
111	2.101						-33.53				
		-29.46 (Minimum)		-2.371 (Nominal)	24.72 (Maximum)			-829.7 (Minimum)		0 (Nominal)	829.7 (Maximum)
112	-67.98		EXCEEDS LIMIT				101.8				EXCEEDS LIMIT
		-59.29 (Minimum)		-38.25 (Nominal)	-17.21 (Maximum)			-81.78 (Minimum)		0 (Nominal)	81.78 (Maximum)
113	-1.237						-2.210				
		-5.774 (Minimum)		0.3178 (Nominal)	6.410 (Maximum)			-66.82 (Minimum)		0 (Nominal)	66.82 (Maximum)
114	2.242						-19.17				
		-1.502 (Minimum)		2.198 (Nominal)	5.898 (Maximum)			-99.27 (Minimum)		0 (Nominal)	99.27 (Maximum)
115	0.04165						-25.92				
		-3.006 (Minimum)		0.08759 (Nominal)	3.181 (Maximum)			-66.82 (Minimum)		0 (Nominal)	66.82 (Maximum)
116	-6.983						38.16				
		-19.79 (Minimum)		-0.4650 (Nominal)	18.86 (Maximum)			-61.28 (Minimum)		0 (Nominal)	61.28 (Maximum)

Master: Calibration out of date 19-Feb-2009 12:21

High resolution Integrated Logging Tool-DTS / Equipment Identification

Primary Equipment:		
HILT high-Resolution Mechanical Sonde	HRMS - H	
HILT Rxo Gamma-ray Device	HRGD - H	
HILT Micro Cylindrically Focused Log Dev	MCFL - H	
GR Logging Source	GLS - VJ	5393
HILT High Res. Control Cartridge	HRCC - H	
High Resolution Laterolog Array - B	HRLT - B	
HRLT IP Dummy Cartridge	DUMM - A	
HILT Gamma-Ray Neutron Sonde-DTS	HGNS - H	
Auxiliary Equipment:		
Neutron Calibration Tank	NCT - B	
Gamma Source Radioactive	GSR - U/Y	
HGNS Housing	HGNH -	

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Stab Measurement Summary

Phase	BS Window Ratio			Value	Phase	SS Window Ratio			Value	Phase	LS Window Ratio			Value
Before				0.7449	Before				0.4760	Before				0.3011
	0.7074 (Minimum)	0.7447 (Nominal)	0.7819 (Maximum)			0.4533 (Minimum)	0.4772 (Nominal)	0.5010 (Maximum)			0.2859 (Minimum)	0.3009 (Nominal)	0.3160 (Maximum)	
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value	Phase	LS Window Sum CPS			Value
Before				28720	Before				12290	Before				1429
	27400 (Minimum)	28840 (Nominal)	30280 (Maximum)			11700 (Minimum)	12310 (Nominal)	12930 (Maximum)			1359 (Minimum)	1430 (Nominal)	1502 (Maximum)	

Before: 13-Nov-2010 17:07

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Photo-multiplier High Voltages Calibrations

Phase	BS PM High Voltage (Command) V	Value	Phase	SS PM High Voltage (Command) V	Value	Phase	LS PM High Voltage (Command) V	Value

Before			1619	Before			1461	Before			1253
1494 (Minimum)	1594 (Nominal)	1694 (Maximum)		1352 (Minimum)	1452 (Nominal)	1552 (Maximum)		1153 (Minimum)	1253 (Nominal)	1353 (Maximum)	

Before: 13-Nov-2010 17:07

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Crystal Quality Resolutions Calibration

Phase	BS Crystal Resolution %			Value	Phase	SS Crystal Resolution %			Value	Phase	LS Crystal Resolution %			Value
Before				12.48	Before				8.946	Before				8.277
11.37 (Minimum)	12.37 (Nominal)	13.37 (Maximum)			7.979 (Minimum)	8.979 (Nominal)	9.979 (Maximum)			7.242 (Minimum)	8.242 (Nominal)	9.242 (Maximum)		

Before: 13-Nov-2010 17:07

High resolution Integrated Logging Tool-DTS Wellsite Calibration

MCFL Calibration

Phase	Raw B0 Resistivity OHMM			Value	Phase	Raw B1 Resistivity OHMM			Value	Phase	Raw B2 Resistivity OHMM			Value
Before				3858	Before				3797	Before				3811
3565 (Minimum)	3875 (Nominal)	4185 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		

Before: 13-Nov-2010 17:09

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HILT Caliper Calibration

Phase	HILT Caliper Zero Measurement IN			Value	Phase	HILT Caliper Plus Measurement IN			Value
Before				8.271	Before				12.69
6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)			9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)		

Before: 13-Nov-2010 17:09

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HRLT M01

Idx	Phase	HRLT M0-M1 Voltage Plus UV			Value	Nominal	Maximum	Minimum
0	Before				-317.1	-322.7	-280.7	-379.7
1	Before				-319.9	-322.7	-280.7	-379.7
2	Before				-324.4	-322.7	-280.7	-379.7
3	Before				-324.1	-322.7	-280.7	-379.7
4	Before				-319.5	-322.7	-280.7	-379.7
5	Before				-323.1	-322.7	-280.7	-379.7
6	Before				314.9	322.7	379.7	280.7
7	Before				-322.7	-322.7	-280.7	-379.7
		(Minimum)	(Nominal)	(Maximum)				

Before: 14-Nov-2010 2:14

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HRLT M12

Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1753	1781	2095	1549
1	Before		1771	1781	2095	1549
2	Before		1790	1781	2095	1549
3	Before		1789	1781	2095	1549
4	Before		1763	1781	2095	1549
5	Before		1784	1781	2095	1549
6	Before		-1750	-1781	-1549	-2095
7	Before		1781	1781	2095	1549

		(Minimum) (Nominal) (Maximum)				

Before: 14-Nov-2010 2:14

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HRLT M23

Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1733	1781	2095	1549
1	Before		1759	1781	2095	1549
2	Before		1781	1781	2095	1549
3	Before		1784	1781	2095	1549
4	Before		1752	1781	2095	1549
5	Before		1775	1781	2095	1549
6	Before		-1728	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
		(Minimum) (Nominal) (Maximum)				

Before: 14-Nov-2010 2:14

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HRLT V34

Idx	Phase	HRLT A3-A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68430	70000	82360	60900
1	Before		69370	70000	82360	60900
2	Before		70490	70000	82360	60900
3	Before		70800	70000	82360	60900
4	Before		69490	70000	82360	60900
5	Before		70340	70000	82360	60900
6	Before		-67200	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				

Before: 14-Nov-2010 2:14

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HRLT V45

Idx	Phase	HRLT A4-A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68100	70000	82360	60900
1	Before		69250	70000	82360	60900
2	Before		70340	70000	82360	60900
3	Before		70640	70000	82360	60900
4	Before		69300	70000	82360	60900
5	Before		70140	70000	82360	60900
6	Before		-67040	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				

Before: 14-Nov-2010 2:14

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HRLT V56

Idx	Phase	HRLT A5-A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68140	70000	82360	60900
1	Before		69210	70000	82360	60900

1	Before		69210	70000	82360	60900
2	Before		70290	70000	82360	60900
3	Before		70570	70000	82360	60900
4	Before		69230	70000	82360	60900
5	Before		70050	70000	82360	60900
6	Before		-67030	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				

Before: 14-Nov-2010 2:14

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HRLT VTP

Idx	Phase	HRLT Torpedo-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-67860	-70000	-60900	-82360
1	Before		-69230	-70000	-60900	-82360
2	Before		-70360	-70000	-60900	-82360
3	Before		-70710	-70000	-60900	-82360
4	Before		-69420	-70000	-60900	-82360
5	Before		-70260	-70000	-60900	-82360
6	Before		66980	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
		(Minimum) (Nominal) (Maximum)				

Before: 14-Nov-2010 2:14

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HRLT VBD

Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-67810	-70000	-60900	-82360
1	Before		-69110	-70000	-60900	-82360
2	Before		-70250	-70000	-60900	-82360
3	Before		-70610	-70000	-60900	-82360
4	Before		-69370	-70000	-60900	-82360
5	Before		-70220	-70000	-60900	-82360
6	Before		66870	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
		(Minimum) (Nominal) (Maximum)				

Before: 14-Nov-2010 2:14

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HRLT ISO

Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		283.1	284.0	334.1	247.0
1	Before		281.1	281.1	330.7	244.4
2	Before		281.1	281.1	330.7	244.4
3	Before		281.1	281.1	330.7	244.4
4	Before		281.1	281.1	330.7	244.4
5	Before		281.1	281.1	330.7	244.4
6	Before		281.1	281.1	330.7	244.4

7	Before	281.1	281.1	330.7	244.4
	(Minimum) (Nominal) (Maximum)				

Before: 14-Nov-2010 2:14

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HRLT MV

Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-319.5	-322.7	-280.7	-379.7
1	Before		-315.6	-322.7	-280.7	-379.7
2	Before		-318.5	-322.7	-280.7	-379.7
3	Before		-316.9	-322.7	-280.7	-379.7
4	Before		-308.9	-322.7	-280.7	-379.7
5	Before		-327.7	-322.7	-280.7	-379.7
6	Before		323.3	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
	(Minimum) (Nominal) (Maximum)					

Before: 14-Nov-2010 2:14

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkgd) GAPI	Value
Before		78.60	Before		177.3
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			157.1 (Minimum) 165.0 (Nominal) 206.3 (Maximum)	

Before: 13-Nov-2010 17:05

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Zero Measurement

Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		27.70	Master		25.54
Before		26.67	Before		27.06
	5.000 (Minimum) 27.70 (Nominal) 40.00 (Maximum)			5.000 (Minimum) 25.54 (Nominal) 40.00 (Maximum)	

Master: 4-Sep-2010 14:31 Before: 13-Nov-2010 17:29

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Ratio Measurement

Phase	Thermal Near Corr. (Tank) CPS	Value	Phase	Thermal Far Corr. (Tank) CPS	Value	Phase	CNTC/CFTC (Tank)	Value
Master		5486	Master		2294	Master		2.391
	4700 (Minimum) 5800 (Nominal) 6900 (Maximum)			1900 (Minimum) 2400 (Nominal) 2900 (Maximum)			2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)	

Master: 4-Sep-2010 14:31

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Accelerometer Calibration

Phase	Z-Axis Acceleration F/S2	Value
Before		32.05
	31.53 (Minimum) 32.19 (Nominal) 32.84 (Maximum)	

Before: 14-Nov-2010 0:34

High resolution Integrated Logging Tool-DTS Master Calibration

Inversion results

Phase	Rho Aluminum G/C3	Value	Phase	Rho Magnesium G/C3	Value
Master		2.599	Master		1.689
	2.586 2.596 2.606			1.676 1.686 1.696	

Phase	Pe Aluminum	Value	Phase	Pe Magnesium	Value
Master		2.513	Master		2.640
2.470 (Minimum)	2.570 (Nominal)	2.670 (Maximum)	2.550 (Minimum)	2.650 (Nominal)	2.750 (Maximum)

Master: 20-Oct-2010 16:07

High resolution Integrated Logging Tool-DTS Master Calibration

Deviation Summary

Phase	BS Average Deviation %	Value	Phase	SS Average Deviation %	Value	Phase	LS Average Deviation %	Value
Master		0.2448	Master		0.4150	Master		0.4590
-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)	-1.500 (Minimum)	0 (Nominal)	1.500 (Maximum)
Phase	BS Max Deviation %	Value	Phase	SS Max Deviation %	Value	Phase	LS Max Deviation %	Value
Master		0.6182	Master		1.140	Master		1.217
-1.600 (Minimum)	0 (Nominal)	1.600 (Maximum)	-2.500 (Minimum)	0 (Nominal)	2.500 (Maximum)	-3.500 (Minimum)	0 (Nominal)	3.500 (Maximum)

Master: 20-Oct-2010 16:07

High resolution Integrated Logging Tool-DTS Master Calibration

Zero Measurement

Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		27.70	Master		25.54
5.000 (Minimum)	27.70 (Nominal)	40.00 (Maximum)	5.000 (Minimum)	25.54 (Nominal)	40.00 (Maximum)

Master: 4-Sep-2010 14:31

High resolution Integrated Logging Tool-DTS Master Calibration

Tank Measurement

Phase	Thermal Near Corr. (Tank) CPS	Value	Phase	Thermal Far Corr. (Tank) CPS	Value	Phase	CNTC/CFTC (Tank)	Value
Master		5486	Master		2294	Master		2.391
4700 (Minimum)	5800 (Nominal)	6900 (Maximum)	1900 (Minimum)	2400 (Nominal)	2900 (Maximum)	2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)

Master: 4-Sep-2010 14:31

General Purpose Inclinometer / Equipment Identification

Primary Equipment:	
GPIT Cartridge - C	GPIC - C
Auxiliary Equipment:	
GPIT Housing	GPIH - B

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:	
EDTC Gamma Ray Detector	EDTG - A/B
Enhanced DTS Cartridge	EDTC - B
Auxiliary Equipment:	
EDTC Housing	EDTH - B

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration F/S2	Value
Before		32.13
31.53 (Minimum)	32.19 (Nominal)	32.84 (Maximum)

Before: 14-Nov-2010 0:34

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		63.31	Before		160.5	Before		165.0
After	NOT DONE	N/A	After	NOT DONE	N/A	After	NOT DONE	N/A
0 (Minimum)	30.00 (Nominal) 120.0 (Maximum)		145.9 (Minimum)	160.5 (Nominal) 175.1 (Maximum)		150.0 (Minimum)	165.0 (Nominal) 180.0 (Maximum)	

Before: 13-Nov-2010 17:06 After: Calibration not done

Company: OXY USA - LA BASIN

Schlumberger

Well: DOM-001
Field: Dominguez
County: Los Angeles
State: California

RT SCANNER